

SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION ACTION PLAN 2021 UPDATE

Appendices



Prepared for:

*Sussex County Sheriff's Office
Division of Emergency Management
Sheriff Michael Strada, Emergency Management Coordinator*



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





APPENDIX A. PLAN ADOPTION

The Sussex 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 Sussex County and participating jurisdictions authorizing adoption of the Sussex County Hazard Mitigation Plan update.



RESOLUTION NO. XXXX-XX

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

AUTHORIZING THE ADOPTION OF THE

2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the **[jurisdiction name]**:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the “Plan”) as the jurisdiction’s Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this Xst, Xnd, Xrd, Xth day of **MONTH**, **YEAR**, by the following vote:

AYES:

NOES:





ABSENT:

ABSTAIN:

Elected Official, City/Town/Borough of _____

ATTEST: _____

Clerk, City/Town/Borough of _____

Resolution Information

Meeting Date
08/11/2021

Resolution Type
GRANT RELATED

Division/Office
EMERGENCY MGT

Department
SHERIFF

Municipal Name
N/A

Status
DRAFT

Agenda Order
N/A

Initiator Phone Number*
973-579-0250

Initiator Extension*
1101

Project ID

Project ID Description

Resolution Title

Enter The Resolution Title Here (CTRL + C To Copy and CTRL +V To Paste)
RESOLUTION RE: AUTHORIZATION FOR THE BOARD OF COMMISSIONERS TO ACCEPT AND AUTHORIZE THE ADOPTION OF THE 2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITGIATION PLAN UPDATE

Resolution Summary

Enter The Resolution Summary Here (CTRL + C To Copy and CTRL + V To Paste)
RESOLUTION RE: AUTHORIZATION FOR THE BOARD OF COMMISSIONERS TO ACCEPT AND AUTHORIZE THE ADOPTION OF THE 2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITGIATION PLAN UPDATE

Notes

Please enter notes pertaining to the resolutuion
The attached supporting document Local Mitigation Plan Review Tool summarizes the overall Hazard Mitigation Plan which is housed at the Office of Emergency Management.

Submission Date
07/27/2021

Was the resolution or supporting documentation prepared or reviewed by outside counsel on behalf of the County?*
 Yes
 No

Attorney Name

Law Firm

Vendor Name*
2021 FEMA HAZARD MITIGATION PLAN RESOLUTION

Document Description*
2021 FEMA HAZARD MITIGATION PLAN RESOLUTION

Initiator's Name
Lydia Palmer

Initiator Email*
LPALMER@SUSSEX.NJ.US

Resolution Package #
2354812

Resolution Number

RESOLUTION RE: AUTHORIZATION FOR THE BOARD OF COUNTY COMMISSIONERS TO ACCEPT AND AUTHORIZE THE ADOPTION OF THE 2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS, pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS, a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within the County of Sussex; and

WHEREAS, the coalition has completed a planning process that engages the public, assess the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating, and revising this strategy.

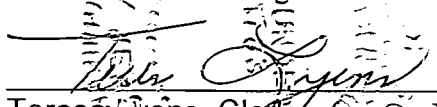
NOW, THEREFORE, BE IT RESOLVED that the Board of County Commissioners for the County of Sussex

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation plan update (the "Plan") as the County's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to the County of Sussex
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-Disaster mitigation of hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the plan
- 5) Will help to promote and support mitigation success of all participants in this plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the plan no less than every five years

BE IT FURTHER RESOLVED that the Sussex County Board of County Commissioners Director, Sussex County Sheriff, County Emergency Management Coordinator, and County Treasurer/CFO, and their designees, are authorized to execute any part of the Hazard Mitigation Plan and sign all appropriate documentation relating to said Plan; and

BE IT FUTHER RESOLVED that copies of this resolution and Plan will be kept on file and maintained by the Sussex County Sheriff's Office, Division of Emergency Management.

Certified as a true copy of the Resolution adopted by the Board of County Commissioners on the 11th day of August 2021.


Teresa Lyons, Clerk
Board of Commissioners
County of Sussex

RECORD OF VOTE						
COMMISSIONER	AYE	NAY	ABST	ABS	MOVE	SEC
Carney	✓					
Fantasia	✓					
Fasano	✓					
Petillo	✓				✓	
Yardley	✓					✓

ABST - Abstain
MOVE - Resolution Moved

ABS - Absent
SEC - Resolution Seconded

COUNTY OF SUSSEX



*Clerk to the Board of County Commissioners
Sussex County Administrative Center
One Spring Street
Newton, NJ 07860
Tel: 973.579.0240
Fax: 973.383.1124*

*Teri Lyons, Clerk of the Board
Email: tlyons@sussex.nj.us*

*Suzannah Givone, Clerk Pro Tem
Email: sgivone@sussex.nj.us*

August 12, 2021

Sussex County Sheriff's Office
Via Interoffice mail

RESOLUTION RE: RESOLUTION PROVIDING FOR THE INSERTION OF ANY SPECIAL ITEM OF REVENUE IN THE 2021 BUDGET OF THE COUNTY OF SUSSEX RELATING TO THE MUNICIPAL ALLIANCE FY22 AWARD IN THE AMOUNT OF \$115,989.00, FOR THE PERIOD OF JULY 1, 2021 THROUGH JUNE 30, 2022

Dear Sheriff Strada:

The above-captioned Resolutions were adopted by the Sussex County Board of County Commissioners at its Regular meeting held on August 11, 2021.

Enclosed is a certified copy of the Resolutions for your files. If you require any additional information, please feel free to contact me.

Sincerely,

Suzannah Givone
Clerk Pro Tem
Sussex County Commissioner Board

Encl.

RESOLUTION

Andover Borough, Sussex County, New Jersey

AUTHORIZING THE ADOPTION OF THE 2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Borough of Andover:

- 1) Adopts in its entirety, the 2020 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.


PASSED AND ADOPTED on this 9th day of August, 2021, by the following vote:

AYES: Dennison, Hoag, Smith, Pearson, Delfing

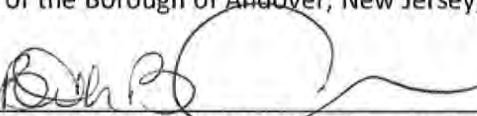
NOES: None

ABSENT: Walter

ABSTAIN: None


John Morgan, Mayor Borough of Andover

CERTIFICATION: I hereby certify the foregoing to be a true and correct copy of a resolution duly adopted by the Mayor and Council of the Borough of Andover, New Jersey, at a meeting held on August 9th, 2021.


Beth Brothman, Municipal Clerk Borough of Andover

SEAL

**TOWNSHIP OF ANDOVER
COUNTY OF SUSSEX, STATE OF NEW JERSEY**

RESOLUTION #R2021-92

**A RESOLUTION OF THE TOWNSHIP COMMITTEE OF THE TOWNSHIP OF ANDOVER
AUTHORIZING THE ADOPTION OF THE
2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE**

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Township of Andover:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this 19th day of August, 2021, by the following vote:

AYES: Mr. Carafello, Mr. Bensley, Mr. Lensak, Mr. Walsh, Mayor McGovern

NOES: None

ABSENT: None

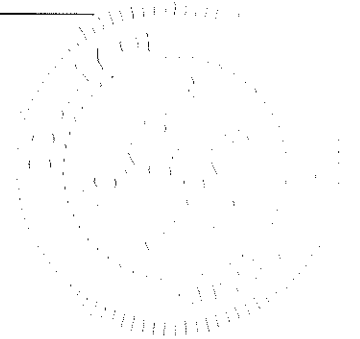
ABSTAIN: None

CERTIFICATION

I, Patricia Bussow, Municipal Clerk of the Township of Andover, in the County of Sussex in the State of New Jersey, do hereby certify that the foregoing Resolution is a true copy of the Original Resolution duly passed and adopted by a majority of the full membership of the Andover Township Committee at the meeting of August 19, 2021.

Patricia Y. Bussow

Patricia Bussow, RMC
Administrator/Municipal Clerk



RESOLUTION NO. 23-21

**A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF BRANCHVILLE
AUTHORIZING THE ADOPTION OF THE
2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE**

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the BOROUGH OF BRANCHVILLE

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this 4th day of August, 2021, by the following vote:

AYES: *Bathgale · Doremus · Shechner · Van Stone · Whitesell*

NOES: *NONE*

ABSENT: Howell

ABSTAIN: none

 Anthony Frato
Elected Official, Town/Borough of Branchville

ATTEST: *Kate M*
Clerk, Town/Borough of Branchville

RESOLUTION NO. 184-2021

**A RESOLUTION OF THE TOWNSHIP COUNCIL OF THE TOWNSHIP OF BYRAM
AUTHORIZING THE ADOPTION OF THE
2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE**

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Township Council of the Township of Byram:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

BYRAM TOWNSHIP COUNCIL

	Councilman Bonker	Councilwoman Franco	Councilman Gallagher	Councilman Roseff	Mayor Rubenstein
Motion			✓		
2nd		✓			
Yes	✓	✓	✓	✓	✓
No					
Abstain					
Absent					

ATTEST:

I certify that the foregoing resolution was adopted by the Byram Township Council at a meeting held on August 17, 2021.


 Cynthia Church, Township Clerk

**TOWNSHIP OF FRANKFORD
COUNTY OF SUSSEX, STATE OF NEW JERSEY**

RESOLUTION 2021-057

AUTHORIZING THE ADOPTION OF THE

2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Township of Frankford:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.

7) Will provide an update of the Plan in conjunction with the County no less than every five years.


PASSED AND ADOPTED on 27th day of July, 2021 by the following vote:

AYE:

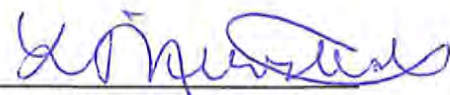
NAY:

ABSENT:

ABSTAIN:



Nicholas Civitan, Mayor

ATTEST: 

Lori Nienstedt, RMC, MBA
Municipal Clerk, Administrator

RESOLUTION NO. 2021-79

A RESOLUTION OF THE GOVERNING BODY OF THE BOROUGH OF FRANKLIN AUTHORIZING THE ADOPTION OF THE 2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Borough of Franklin

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this 17th day of August, 2021, by the following vote:

AYES: Mr. Formica, Mr. Limon, Mr. Skellenger, Mr. Snyder, Mr. Zydon


NOES:

ABSENT: Mr. Postas

ABSTAIN:

ATTEST:

BOROUGH OF FRANKLIN


Darlene J. Tremont, Municipal Clerk


John M. Sowden IV, Mayor

Township of Fredon

RESOLUTION NO. 2021-58

A RESOLUTION OF THE TOWNSHIP OF FREDON OF THE COUNTY OF SUSSEX, STATE OF NEW JERSEY

AUTHORIZING THE ADOPTION OF THE

2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Township of Fredon, County of Sussex, State of New Jersey

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this 12th day of August, 2021 by the following vote:

Moved By: Glenn Deitz

Seconded By: Carl Lazzaro

VOTING

Township Member	Committee	In Favor	Against	Abstain	Absent
Glenn Deitz		x			
Carl Lazzaro		x			
Guy Masi		x			
John Richardson					x
John P. Flora					x



Guy Masi

Deputy Mayor, Township of Fredon

ATTEST:



Suzanne Boland

Clerk, Township of Fredon

RESOLUTION 2021-129
TOWNSHIP COMMITTEE - TOWNSHIP OF GREEN
COUNTY OF SUSSEX, STATE OF NJ

AUTHORIZING THE ADOPTION OF THE
2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Township Committee of the Township of Green, County of Sussex, State of New Jersey hereby:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.

Resolution 2021-129
Township Committee – Township of Green
County of Sussex, State of NJ

- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

DATED: August 16, 2021

I, Mark Zschack, Township Clerk of the Township of Green, County of Sussex, State of New Jersey, do hereby certify the foregoing resolution to be a true and correct copy of a resolution adopted by the Township Committee at a regular meeting held on August 16, 2021.



Mark Zschack, RMC, Township Clerk

Record of Vote:

	MOTION	SECOND	AYE	NAY	ABSTAIN	ABSENT
Mr. Chirip						√
Mr. Conkling		√	√			
Mr. Qarmout			√			
Mrs. Raffay	√		√			
Mrs. Phillips			√			

RESOLUTION NO. 2021-63

A RESOLUTION OF THE Governing Body of the Borough of Hamburg

AUTHORIZING THE ADOPTION OF THE

2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Borough of Hamburg:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this 2nd day of August 2021, by the following vote:

AYES:

NAYS:

ABSENT:

ABSTAIN:

Raul Insino

Mayor, Borough of Hamburg

ATTEST:

Sorun Jehad Rme

Clerk, Borough of Hamburg

**A RESOLUTION OF THE TOWNSHIP COMMITTEE OF THE TOWNSHIP OF HAMPTON
AUTHORIZING THE ADOPTION OF THE
2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE**

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

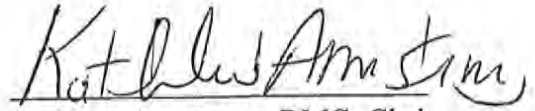
NOW, THEREFORE, BE IT RESOLVED that the TOWNSHIP OF HAMPTON:

- 1) Adopts in its entirety, the 2020 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this 31st day of August, 2021, by the following vote:

AYES: 5
 NOES: 0
 ABSENT: 0
 ABSTAIN: 0

CERTIFICATION: I hereby certify that the foregoing to be a true and correct copy of a resolution duly adopted by the Township Committee of the Township of Hampton, in the County of Sussex, New Jersey, at a meeting held on August 31, 2021.

A handwritten signature in black ink that reads "Kathleen Armstrong". The signature is written in a cursive style with a horizontal line underneath the name.

Kathleen Armstrong, RMC, Clerk
Hampton Township

TOWNSHIP OF HARDYSTON

RESOLUTION #73-21

**A RESOLUTION OF THE TOWNSHIP COUNCIL OF THE TOWNSHIP OF HARDYSTON
AUTHORIZING THE ADOPTION OF THE
2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE**

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Township of Hardyston:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

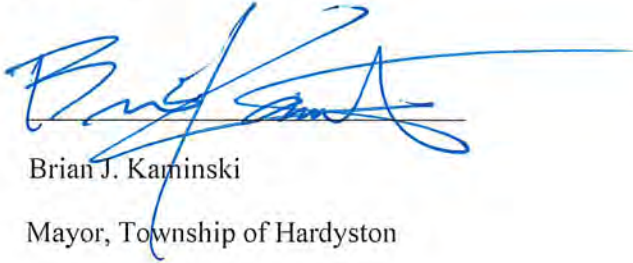
PASSED AND ADOPTED on this 28th day of JULY, 2021, by the following vote:

AYES: *KULA, MILLER, VERRILLI, KAMINSKI, CICERALE*

NOES:


ABSENT:

ABSTAIN:



Brian J. Kaminski
Mayor, Township of Hardyston

ATTEST:



Jane Bakalarczyk
Clerk, Township of Hardyston

CERTIFICATION

I hereby certify the above to be a true copy of the resolution passed by the Hardyston Township Council at a duly convened meeting held on July 28, 2021.



Jane Bakalarczyk, Township Clerk

Resolution 2021-122

A RESOLUTION OF THE MAYOR AND COUNCIL OF THE BOROUGH OF HOPATCONG AUTHORIZING THE ADOPTION OF THE 2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the **Borough of Hopatcong**:

- 1) Adopts in its entirety, the 2020 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this 1st day of September, 2021, by the following vote:

AYES: *Hofenkamp, Johnson, Roberts, Schindelar, Smith, Young*

NOES: *None*

ABSENT: *None*

ABSTAIN: *None*

Valerie A. Egan

Valerie A. Egan, Municipal Clerk

Michael Francis

Michael Francis, Mayor

**LAFAYETTE TOWNSHIP
SUSSEX COUNTY, NEW JERSEY**

RESOLUTION 2021-40

A RESOLUTION OF THE TOWNSHIP COMMITTEE OF THE
TOWNSHIP OF LAFAYETTE AUTHORIZING THE ADOPTION OF
THE 2021 SUSSEX COUNTY, NJ HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment and the County and local economy; and

WHEREAS, pro-active mitigation of known hazards before a disaster even can reduce or eliminate long-term risk to life and property; and

WHEREAS, the Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre- and post-disaster hazard mitigation programs; and

WHEREAS, a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

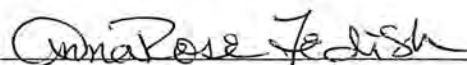
WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develop a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy.

NOW, THEREFORE, BE IT RESOLVED by the Township of Lafayette:

1. Adopts, in its entirety, the 2020 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
2. Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
3. Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
4. Will continue its support of the Mitigation Planning Committee as described with the Plan.
5. Will help to promote and support the mitigation successes of all participants in this Plan.
6. Will incorporate mitigation planning as an integral component of government and partner operations.
7. Will provide an update of the Plan in conjunction with the County no less than every five (5) years.

CERTIFICATION

Certified as a true copy of a Resolution adopted by the Lafayette Township Committee, Sussex County, New Jersey at a meeting held on September 7, 2021.



Anna Rose Fedish, RMC
Municipal Clerk

MONTAGUE TOWNSHIP

RESOLUTION 2021-71

A RESOLUTION OF THE TOWNSHIP OF MONTAGUE, COUNTY OF SUSSEX, STATE OF NEW JERSEY AUTHORIZING THE ADOPTION OF THE 2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Township of Montague:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this 10th day of August 2021, by the following vote:

Upon roll call the vote was recorded as follows:

Committeewoman Crawford: aye
Committeewoman Martin: aye
Committeeman Merusi: aye

Committeeman Zitone: aye
Mayor Innella: aye


Attest:


Dana Klinger, RMC, CMR
Deputy Municipal Clerk


Richard E. Innella, Mayor

CERTIFICATION

I, Dana Klinger, Deputy Municipal Clerk of the Township of Montague, hereby certify that this is a true and accurate copy of the resolution adopted by the Township Committee of the Township of Montague, County of Sussex, State of New Jersey at a regular meeting held on August 10, 2021.


Dana Klinger, RMC, CMR
Montague Township Deputy Clerk



TOWN OF NEWTON

RESOLUTION #158-2021

August 9, 2021

"A Resolution of the Town Council of the Town of Newton Authorizing the Adoption of the 2021 Sussex County, New Jersey Hazard Mitigation Plan Update"

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS, pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre- and post-disaster hazard mitigation programs; and

WHEREAS, a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

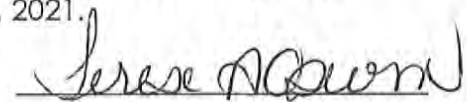
WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE BE IT RESOLVED, that the Town Council of the Town of Newton hereby:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

CERTIFICATION

THIS IS TO CERTIFY that the above is a true copy of a Resolution adopted by the Town Council of the Town of Newton at a regular meeting of said Governing Body conducted on Monday, August 9, 2021.


Teresa A. Oswin, RMC
Deputy Municipal Clerk

**BOROUGH OF OGDENSBURG
COUNTY OF SUSSEX
RESOLUTION NO. 64-2021**

**A RESOLUTION OF THE MAYOR AND COUNCIL OF THE BOROUGH OF OGDENSBURG
AUTHORIZING THE ADOPTION OF THE
2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE**

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS, pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS, a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the Borough of Ogdensburg, County of Sussex and State of New Jersey as follows;

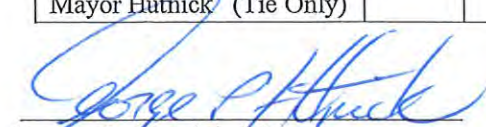
- 1) The Borough hereby adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) The Borough will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) The Borough will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) The Borough will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) The Borough will help to promote and support the mitigation successes of all participants in this Plan.
- 6) The Borough will incorporate mitigation planning as an integral component of government and partner operations.
- 7) The Borough will provide an update of the Plan in conjunction with the County no less than every five years.

CERTIFICATION: I Robin Hough, Municipal Clerk of the Borough of Ogdensburg, in the County of Sussex, State of New Jersey do hereby certify that the foregoing is true and correct copy of a Resolution adopted by the Governing Body of the Borough of Ogdensburg at a regular meeting held on September 27th, 2021.



Robin Hough, RMC/CMR

PASSED AND ADOPTED on this 27th day of September, 2021, by the following vote:

RECORD OF COUNCIL VOTES				
COUNCIL MEMBER	AYES	NAYES	ABSTAIN	ABSENT
Councilman Alvarez	X			
Councilwoman Cowdrick				X
Councilman DeMeo	X			
Councilman Nardini	X			
Councilman Nasisi				X
Councilwoman Slater	X			
Mayor Hutnick (Tie Only)				


George P. Hutnick, Mayor
Elected Official, Town/Borough of Ogdensburg

ATTEST:


Robin Hough, RMC/CMR, Borough of Ogdensburg

SANDYSTON TOWNSHIP

R-49-2021

**A RESOLUTION OF THE TOWNSHIP COMMITTEE OF THE TOWNSHIP OF SANDYSTON
AUTHORIZING THE ADOPTION OF THE 2021 SUSSEX COUNTY, NEW JERSEY
HAZARD MITIGATION PLAN UPDATE**

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

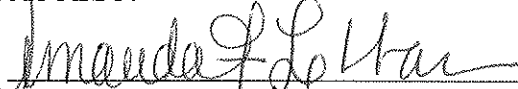
NOW, THEREFORE, BE IT RESOLVED that the **Township of Sandyston**:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this 17th day August, 2021, by the following Roll Call Vote: Ayes: Green, Hull, Harper (3); Nays (0); Absent (0); Abstain (0)

Adopted: August 17, 2021

ATTEST:



Amanda F. Lobban, RMC
Municipal Clerk



George B. Harper, Jr. Mayor

CERTIFICATION

I hereby certify that the foregoing resolution is a true and certified copy of the resolution adopted by the Township Committee of the Township of Sandyston at the regularly scheduled meeting held on Tuesday, August 17, 2021, at the Sandyston Township Municipal Building, 133 Route 645, Sandyston, New Jersey.



Amanda F. Lobban, RMC
Municipal Clerk

RESOLUTION OF THE TOWNSHIP OF SPARTA

Sussex County, New Jersey

No. 21-129

Date of Adoption. 08/10/2021

Title or Subject:

9-7 Resolution of the Township Council of the Township of Sparta Authorizing the Adoption of the 2021 Sussex County, New Jersey Hazard Mitigation Plan Update

Introduced by: Councilwoman Whilesmith

Seconded by: Councilman Hertzberg

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS, pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs, and

WHEREAS, a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Township of Sparta Township

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority

- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

RECORD VOTE OF COUNCIL ON FINAL PASSAGE									
COUNCILMAN	AYE	NAY	N V	A.B	COUNCILMAN	AYE	NAY	N V	A.B
CHIARIELLO	X				SMITH	X			
MURPHY	X				WHILESMITH	X			
QUINN				X					

I, Kathleen Chambers, Municipal Clerk, do hereby certify that the foregoing resolution was adopted at the regular meeting of the Council held on August 10, 2021.

August 11, 2021
Date


Signature – Township Clerk

Borough of Stanhope

Sussex County, New Jersey

- Resolution -

RESOLUTION AUTHORIZING THE ADOPTION OF THE 2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Borough of Stanhope of the County of Sussex:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.

- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.
- 8) This Resolution shall take effect immediately.

I certify this is a true copy of the Resolution adopted by the Mayor and Council of the Borough of Stanhope on August 10, 2021.


Ellen Horak, Borough Clerk



STILLWATER TOWNSHIP,
SUSSEX COUNTY, NJ

RESOLUTION NO. 2021-101

A RESOLUTION OF THE TOWNSHIP COMMITTEE OF THE TOWNSHIP OF STILLWATER
AUTHORIZING THE ADOPTION OF THE 2021 SUSSEX COUNTY, NEW JERSEY HAZARD
MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Township Committee of the Township of Stillwater:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.


PASSED AND ADOPTED on this 17th day of August, 2021, by the following vote:

AYES: *Barta, Rumsey, Fisher, Scott, Chamings*

NOES:

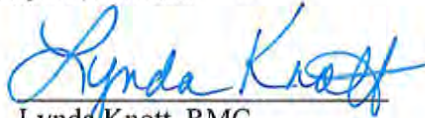
ABSENT:

ABSTAIN:



Lisa Chammings, Mayor
Township of Stillwater

ATTEST:



Lynda Knott, RMC
Township of Stillwater

CERTIFICATION

I, Lynda Knott, Municipal Clerk for the Township of Stillwater, hereby certify that the above Resolution was approved by the Township Committee of the Township of Stillwater at their regularly scheduled Township Committee Meeting of August 17, 2021.



Lynda Knott, RMC
Township Clerk

RESOLUTION NO. 2021-115R

**A RESOLUTION OF THE MAYOR & COUNCIL OF THE BOROUGH OF SUSSEX
AUTHORIZING THE ADOPTION OF THE
2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE**

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Borough of Sussex:

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

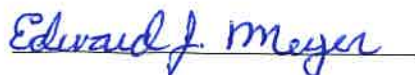
PASSED AND ADOPTED on this 10th day of August, 2021 by the following vote:

AYES: Dykstra, Fronheiser, Holowach, Marks, Poggi

NOES: None

ABSENT: Little

ABSTAIN: None



Edward Meyer, Mayor, Borough of Sussex

ATTEST: 

Antoinette Smith, Clerk, Borough of Sussex

Township of Vernon

Resolution #21-184

A RESOLUTION OF THE TOWNSHIP OF VERNON, COUNTY OF SUSSEX, STATE OF NEW JERSEY, AUTHORIZING THE ADOPTION OF THE 2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS, pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS, a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, , the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy.

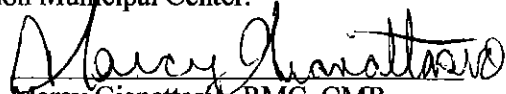
NOW, THEREFORE, BE IT RESOLVED that the Governing body of the Township of Vernon, County of Sussex, State of New Jersey:

1. Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
2. Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
3. Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
4. Will continue its support of the Mitigation Planning Committee as described within the Plan.
5. Will help to promote and support the mitigation successes of all participants in this Plan.
6. Will incorporate mitigation planning as an integral component of government and partner operations.

7. Will provide an update of the Plan in conjunction with the County no less than every five years.

CERTIFICATION

I certify that this is a true copy of the Resolution adopted by the Council of the Township of Vernon at their meeting held on August 23, 2021 at 7:00 pm in the Vernon Municipal Center.


 Marcy Gianattasio, RMC, CMR
 Municipal Clerk

VERNON TOWNSHIP COUNCIL

NAME	MOTION	SECOND	YES	NO	ABSTAIN	ABSENT
Auberger, J		X	X			
Cilli, T			X			
Pitsker, A	X		X			
Weller, K			X			
Shortway, H			X			

RESOLUTION

R-21-21

A RESOLUTION OF THE MAYOR AND COMMITTEE OF THE TOWNSHIP OF WALPACK
AUTHORIZING THE ADOPTION OF THE
2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the Mayor and Committee of the Township of Walpack

- 1) Adopts in its entirety, the 2021 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this 24th day of August 24, 2021, by the following vote:

AYES: MAYOR MAGLIO, DEPUTY MAYOR WYCALEK

NAES:

ABSENT: COMMITTEEMAN HEIGIS


ABSTAIN:



Victor Maglio

Mayor of Walpack Township

ATTEST:



Christine M. Von Oesen

Walpack Township Clerk

RESOLUTION NO. 101-2021

A RESOLUTION OF THE Township OF THE Wantage

AUTHORIZING THE ADOPTION OF THE

2021 SUSSEX COUNTY, NEW JERSEY HAZARD MITIGATION PLAN UPDATE

WHEREAS, all jurisdictions within Sussex County have exposure to hazards that increase the risk to life, property, environment, and the County and local economy; and

WHEREAS; pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

WHEREAS, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre and post disaster hazard mitigation programs; and

WHEREAS; a coalition of Sussex County municipalities with like planning objectives has been formed to pool resources and create consistent mitigation strategies within Sussex County; and

WHEREAS, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating and revising this strategy;

NOW, THEREFORE, BE IT RESOLVED that the [**Wantage Township**]:

- 1) Adopts in its entirety, the 2020 Sussex County Hazard Mitigation Plan Update (the "Plan") as the jurisdiction's Hazard Mitigation Plan and resolves to execute the actions identified in the Plan that pertain to this jurisdiction.
- 2) Will use the adopted and approved portions of the Plan to guide pre- and post-disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the Mitigation Planning Committee as described within the Plan.
- 5) Will help to promote and support the mitigation successes of all participants in this Plan.
- 6) Will incorporate mitigation planning as an integral component of government and partner operations.
- 7) Will provide an update of the Plan in conjunction with the County no less than every five years.

PASSED AND ADOPTED on this 12th day of August 2021, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Michael L Restel Administrator/Acting Clerk



ATTEST: _____

Clerk, Wantage Township of _____



APPENDIX B. PARTICIPATION DOCUMENTATION

This appendix provides documentation to illustrate the significant efforts undertaken to support a broad and inclusive engagement of the participants during this hazard mitigation planning process.

B.1 MEETING AND WORKSHOP PARTICIPATION

Table B-1 provides a broad overview of state, county, municipal and stakeholder personnel that attended meetings and workshops throughout the Sussex County HMP update planning process. All jurisdictions were encouraged to attend the kick-off meeting, risk assessment meeting, mitigation workshop and meet individually with the contract consultant. As discussed in Section 2 (Planning Process), primary and secondary points of contact were identified for each jurisdiction, but moreover, these points of contact were asked to work with their 'mitigation team' to ensure input was provided across all jurisdiction departments. Further, the NFIP Floodplain Administrator was identified and participated by providing information on each community's NFIP compliance and mitigation programs. Table 9.X-1 in each jurisdictional annex (Section 9) summarizes the additional individuals that participated in each jurisdiction, as well as their method of participation. During the planning process the consultant contacted each participant to offer support, explain the process, and facilitate the submittal and review of critical documents.

The participating jurisdictions agreed to abide by the Planning Partner Expectations and Planning Committee Guidelines which established the Steering Committee. Letters of Intent to Participate indicating municipal planning efforts are included in this appendix. The Steering Committee served as the core of the working group. Participation is defined as having input to the hazard analysis (providing critical facility, hazard event, vulnerability data, hazard ranking), contributed to the Strengths, Weaknesses, Obstacles and Opportunities exercise, and as having participated in the mitigation workshop or alternate annex meetings as described in the HMP for the purpose of creating a mitigation strategy to be included in each municipality's annex in Section 9 (Jurisdictional Annexes).



Table B-1. Meeting Participation

Name	Title / Position	Steering Committee Member	Primary Point of Contact	Secondary Point of Contact	NFIP Floodplain Administrator	Attended Meeting(s)	Attended Steering Committee Meeting #1 - August 18 2020	Attended Kickoff Meeting - September 10, 2020	Attended Steering Committee Meeting #2 - October 22, 2020	Attended Planning Partnership Risk Assessment Meeting - October 28, 2020	Attended Planning Partnership Mitigation Strategy Workshop - November 12, 2020	Attended Steering Committee Meeting #3 - February 9, 2021	Attended Steering Committee Meeting #4 - March 26, 2021	Attended Annex Support Meetings / Reviewed Annex
Sussex County														
Michael F. Strada	Sheriff/OEM Coordinator	X												
Robert Haffner	Division of Emergency Management	X	X			X	X	X		X	X	X	X	X
Jen Van Der Wende	Division of Emergency Management	X		X		X	X	X	X	X	X	X	X	X
Scott House	Sussex County Division of Public Works	X				X			X				X	
Gregory V. Poff	Sussex County Administrator, Sussex County Department of Central and Shared Services	X				X	X							X
William J. Koppenaal	Sussex County Engineering Department	X				X		X				X		X
Tom Drabic	Sussex County Division of Planning	X				X	X	X	X	X	X	X		
Autumn Sylvester	Sussex County Division of Planning and Economic Development	X				X			X					
Carol Novrit	Sussex County Health and Human Services – Division of Health	X				X	X							
Keith Nelson	Sussex County Facilities Management	X				X	X	X						





Name	Title / Position	Steering Committee Member	Primary Point of Contact	Secondary Point of Contact	NFIP Floodplain Administrator	Attended Meeting(s)	Attended Steering Committee Meeting #1 - August 18 2020	Attended Kickoff Meeting - September 10, 2020	Attended Steering Committee Meeting #2 - October 22, 2020	Attended Planning Partnership Risk Assessment Meeting - October 28, 2020	Attended Planning Partnership Mitigation Strategy Workshop - November 12, 2020	Attended Steering Committee Meeting #3 - February 9, 2021	Attended Steering Committee Meeting #4 - March 26, 2021	Attended Annex Support Meetings / Reviewed Annex
Stepher Komar	Rutgers Cooperative Extension of Sussex County	X				X	X		X			X		X
Manny Ayers	Newton Medical Center	X				X		X						
Fred Mamay	Sussex County Community College	X				X		X						X
Sandra Meyers	Upper Delaware Conservation District (former Sussex County Soil and Water Conservation District)	X				X		X	X			X		X
Joe Konopinski	Sussex County Facilities Management, Wantage Township	X				X	X	X	X	X	X	X	X	
George Loudis	Andover Township	X				X		X	X			X		X
Borough of Andover														
John Hoag	Emergency Management Coordinator		X											
Jessica Casella	Deputy Emergency Management Coordinator			X										
Harold Pellow	Engineer				X									
Township of Andover														
Chief Eric Danielson	Emergency Management Coordinator		X											
Ptl. George Laoudis	Deputy Coordinator	X		X		X		X						X





Name	Title / Position	Steering Committee Member	Primary Point of Contact	Secondary Point of Contact	NFIP Floodplain Administrator	Attended Meeting(s)	Attended Steering Committee Meeting #1 - August 18 2020	Attended Kickoff Meeting - September 10, 2020	Attended Steering Committee Meeting #2 - October 22, 2020	Attended Planning Partnership Risk Assessment Meeting - October 28, 2020	Attended Planning Partnership Mitigation Strategy Workshop - November 12, 2020	Attended Steering Committee Meeting #3 - February 9, 2021	Attended Steering Committee Meeting #4 - March 26, 2021	Attended Annex Support Meetings / Reviewed Annex
Cory Stoner	Township Engineer				X									
Borough of Branchville														
Jeff Lewis	OEM Coordinator		X			X				X	X			X
Kate Leissler	Borough Clerk			X										
Dave Simmons	Engineer				X									
Township of Byram														
Joseph Sabatini	Township Manager		X											
Alex Rubenstein	Mayor			X										
Peter Karcher	Construction Official				X									
Thomas Koundry	Emergency Management Coordinator					X				X				X
Township of Frankford														
Jeff Lewis	OEM Coordinator		X			X				X	X			
Scott Klosterhoff	OEM Deputy Coordinator			X										
Harold E. Pellow	Engineer				X									
Borough of Franklin														
Jim Williams	OEM Coordinator		X			X		X						
Brian VanDenBroek	DPW Supervisor			X										
Deborah Bonanno	Administrator				X									
Township of Fredon														





Name	Title / Position	Steering Committee Member	Primary Point of Contact	Secondary Point of Contact	NFIP Floodplain Administrator	Attended Meeting(s)	Attended Steering Committee Meeting #1 - August 18 2020	Attended Kickoff Meeting - September 10, 2020	Attended Steering Committee Meeting #2 - October 22, 2020	Attended Planning Partnership Risk Assessment Meeting - October 28, 2020	Attended Planning Partnership Mitigation Strategy Workshop - November 12, 2020	Attended Steering Committee Meeting #3 - February 9, 2021	Attended Steering Committee Meeting #4 - March 26, 2021	Attended Annex Support Meetings / Reviewed Annex
Keith Festa	OEM Coordinator		X		X	X		X						X
Carl Lazzaro	OEM Coordinator, third			X										X
Debra Prommell	Acting Municipal Clerk					X		X						X
Township of Green														
Mark Zschack	Municipal Clerk/Administrator		X			X				X				X
Margaret 'Peg' Phillips	Mayor			X										
Cory Stoner	Township Engineer				X									
Borough of Hamburg														
Keith Sukennikoff	OEM Coordinator		X			X		X						
Michael Postorino	Public Safety/Police Director			X										
John Ruschke	Borough Engineer				X	X		X						
Samantha Anello	Borough Engineer					X				X	X			
Township of Hampton														
Edward Hayes	Township Emergency Management Coordinator		X			X		X		X	X			X
Jessica M. Caruso	Administrator			X		X		X		X	X			
Harold Pellow	Engineer				X									
Township of Hardyston														
William Hickerson	OEM Coordinator		X			X		X		X	X			X
Carrie Piccolo-Kaufer	Township Manager/Planner			X										





Name	Title / Position	Steering Committee Member	Primary Point of Contact	Secondary Point of Contact	NFIP Floodplain Administrator	Attended Meeting(s)	Attended Steering Committee Meeting #1 - August 18 2020	Attended Kickoff Meeting - September 10, 2020	Attended Steering Committee Meeting #2 - October 22, 2020	Attended Planning Partnership Risk Assessment Meeting - October 28, 2020	Attended Planning Partnership Mitigation Strategy Workshop - November 12, 2020	Attended Steering Committee Meeting #3 - February 9, 2021	Attended Steering Committee Meeting #4 - March 26, 2021	Attended Annex Support Meetings / Reviewed Annex
Joseph Butto	Construction Official				X									
Borough of Hopatcong														
Wade Crowley	OEM Coordinator		X			X				X	X			
Ron Tappan	Administrator			X										
William O'Connor	Construction Official				X									
Samantha Anello	Engineer					X				X	X			
Township of Lafayette														
Richard Hughes	Committeeman/ Emergency Management Coordinator		X			X		X		X	X			X
Bill Macko	Road Foreman/Roads			X										
Debra Card	Zoning Officer/Zoning				X									
Township of Montague														
Dave Coss	OEM Coordinator		X											
Eileen DeFabiis	Clerk			X		X								X
Robert Huber	Construction Official/ Plumbing Sub-Code Official				X	X		X						
Jesse Brace-Revak	Deputy Emergency Management Coordinator					X				X	X			X
Town of Newton														
Dan Finkle	Deputy OEM Coordinator		X			X		X			X			X





Name	Title / Position	Steering Committee Member	Primary Point of Contact	Secondary Point of Contact	NFIP Floodplain Administrator	Attended Meeting(s)	Attended Steering Committee Meeting #1 - August 18 2020	Attended Kickoff Meeting - September 10, 2020	Attended Steering Committee Meeting #2 - October 22, 2020	Attended Planning Partnership Risk Assessment Meeting - October 28, 2020	Attended Planning Partnership Mitigation Strategy Workshop - November 12, 2020	Attended Steering Committee Meeting #3 - February 9, 2021	Attended Steering Committee Meeting #4 - March 26, 2021	Attended Annex Support Meetings / Reviewed Annex
Jessica Caldwell	Planner													X
Ken Teets	OEM Coordinator			X										
Cory Stoner	Town Engineer				X									
Terry Oswin	Deputy Town Manager/ Deputy Municipal Clerk					X		X						X
Borough of Ogdensburg														
Richard Keslo	Emergency Management		X			X		X						
George P. Hutnick	Mayor			X										
Mike Vreeland	Borough Engineer				X									
Township of Sandyston														
Shane Houghtaling	Emergency Management		X											
Stanley J. Dutkus	Emergency Management					X		X						
Amy Lobban	Municipal Clerk			X		X		X		X	X			
Robert W. Huber	Construction Official				X									
Township of Sparta														
Neil Spidaletto	OEM Coordinator		X			X		X						X
William Close	Deputy OEM Coordinator			X										
Stan Puszc	Township Engineer				X	X					X			X





Name	Title / Position	Steering Committee Member	Primary Point of Contact	Secondary Point of Contact	NFIP Floodplain Administrator	Attended Meeting(s)	Attended Steering Committee Meeting #1 - August 18 2020	Attended Kickoff Meeting - September 10, 2020	Attended Steering Committee Meeting #2 - October 22, 2020	Attended Planning Partnership Risk Assessment Meeting - October 28, 2020	Attended Planning Partnership Mitigation Strategy Workshop - November 12, 2020	Attended Steering Committee Meeting #3 - February 9, 2021	Attended Steering Committee Meeting #4 - March 26, 2021	Attended Annex Support Meetings / Reviewed Annex
Thomas McIntyre	Deputy OEM Coordinator					X								X
Borough of Stanhope														
Brian McNeilly	Borough Administrator		X			X								X
Eric Keller	Borough Engineer			X										
Thomas Pershouse	Construction Official				X									
Wayne Anthony	OEM Coordinator													
Township of Stillwater														
Lisa Chammings	Mayor/OEM		X			X		X		X	X			X
Robert Wolfe	Deputy OEM			X										
Arlene Fisher	Zoning Officer				X									
Township of Stillwater														
Floyd Southard	OEM Coordinator		X			X		X		X	X			X
Robert Regavich	Deputy OEM			X		X		X						
Kevin Kervatt	Zoning Officer				X									
Township of Vernon														
Ken Clark	OEM Coordinator		X			X		X		X	X			X
Dan Young	Deputy OEM Coordinator/Police Chief			X		X				X	X			X
Robert Westenberger	Construction Official				X									
Township of Walpack														





Name	Title / Position	Steering Committee Member	Primary Point of Contact	Secondary Point of Contact	NFIP Floodplain Administrator	Attended Meeting(s)	Attended Steering Committee Meeting #1 - August 18 2020	Attended Kickoff Meeting - September 10, 2020	Attended Steering Committee Meeting #2 - October 22, 2020	Attended Planning Partnership Risk Assessment Meeting - October 28, 2020	Attended Planning Partnership Mitigation Strategy Workshop - November 12, 2020	Attended Steering Committee Meeting #3 - February 9, 2021	Attended Steering Committee Meeting #4 - March 26, 2021	Attended Annex Support Meetings / Reviewed Annex
Victor J. Maglio	Mayor		X			X		X		X	X			X
Michael Vreeland	Township Engineer, Van Cleef Engineering			X	X									
Township of Wantage														
Joe Konopinski	OEM Coordinator		X			X		X		X	X	X		X
Michael Restel	Administrator			X		X		X						
Harold Pellow	Engineer				X									
Stakeholder Groups														
Claudia Raffay	Sussex Rural Electric Coop					X		X						
Chris Testa	NJOEM					X		X			X			
Howard Wolf	NJOEM					X				X	X			
Robert Burd	NJDOT Office of EM and State HMP Team					X		X						
Joe Ruggeri	NJDEP NFIP Coordinator					X		X						
Brian Sydner	Pike County PA					X		X						
Tim Knapp	Pike County PA					X		X		X				
Jacqueline Espinoza	JCP&L					X		X						





B.2 LETTERS OF INTENT TO PARTICIPATE

Municipalities were provided a copy of the Planning Partner Expectations and asked to formally notify the County of their intent to participate via a Letter of Intent to Participate and to identify a primary and secondary planning point of contact to serve on a Planning Committee and represent the interests of their respective community. In addition, each municipal NFIP Floodplain Administrator (FPA) was identified and requested to actively participate in the planning process. The signed Letters of Intent to Participate are included in this appendix.

Borough of Branchville, N.J.

34 WANTAGE AVENUE
BRANCHVILLE, NEW JERSEY 07826-0840
973-948-4626

Date 8/6/2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Branchville

Dear Sheriff Strada:

Per your letter, the municipality of Branchville, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Branchville_:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.

2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:

- Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
- Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
- Support the Steering Committee selected to oversee the development of this plan.
- Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
- Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website

- Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
 - Review draft plan sections when requested and provide comment and input as appropriate.
 - Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
 - Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
 - Involve your local NFIP Floodplain Administrator in the planning process.
 - Adopt the HMP by resolution of their governing body after FEMA conditional approval.
 - Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Jeff Lewis Position/Department: OEM Coordinator

Phone Number (973) 479-7203 Email Address: jlewis310@embarqmail.com

Alternate/Secondary POC: Kate Leissler Position/Department: Boro Clerk

Phone Number (973) 948-4626 Email Address: branchvilleclerk@yahoo.com

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA Dave Simmons Position/Department: Consultant/Engineer

Phone Number: (973) 948-6463 Email Address:

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,



Byram Township OEM
10 Mansfield Drive
Byram Township, 07874

Date 9/14/2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Byram

Dear Sheriff Strada:

Per your letter, the municipality of Byram, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Byram:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
 - Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
 - Support public outreach efforts in your community which may include:

- Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Thomas Koundry

Position/Department: EMC

Phone Number:(908) 416-1126

Email Address: emc@byramtwp.org

Alternate/Secondary POC:Ken Burke

Position/Department: Dep EMC

Phone Number: (862) 268- 0288

Email Address: kburke@byrampd.org

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA Thomas Koundry

Position/Department: EMC

Phone Number:9084161126

Email Address: emc@byramtwp.org

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,



9-14-2020

Date 8/5/2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Frankford Twp

Dear Sheriff Strada:

Per your letter, the municipality of Frankford Twp, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HIMP) update project. By way of this letter, the municipality of Frankford Twp:

1. Authorizes the Sussex County HIMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community:
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HIMP meeting).
 - Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
 - Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website



BOROUGH OF FRANKLIN

46 Main Street
Franklin, NJ 07416
www.franklinborough.org

John M. Sowden IV, Mayor
Deborah Bonanno, Administrator
Darlene J. Tremont, Municipal Clerk
Phone: 973-827-9280
Fax: 973-827-9279

August 19, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Franklin Borough

Dear Sheriff Strada:

Per your letter, the municipality of Franklin Borough, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Franklin Borough

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
 - Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data

- Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
 - Review draft plan sections when requested and provide comment and input as appropriate.
 - Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
 - Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
 - Involve your local NFIP Floodplain Administrator in the planning process.
 - Adopt the HMP by resolution of their governing body after FEMA conditional approval.
 - Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC:
Jim Williams

Position/Department:
OEM Coordinator

Phone Number:
973-600-9081

Email Address:
lauranjenna@gmail.com

Alternate/Secondary POC:
Brian VanDenBroek

Position/Department:
DPW Supervisor

Phone Number:
862-268-7788

Email Address:
bvandenbroek@Franklinborough.org

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA

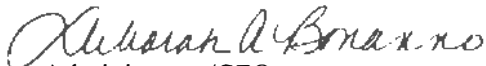
Joe Butto
Phone Number:
973-823-7020

Position/Department:
Construction OFFicial · Hardyston Township

Email Address:
jbutto@hardyston.com

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,


Administrator/CFO



TOWNSHIP OF FREDON
443 ROUTE 94 · NEWTON, NEW JERSEY 07860
PHONE: (973) 383-7025 · FAX: (973) 383-8711

August 28, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Township of Fredon

Dear Sheriff Strada:

Per your letter, the Township of Fredon, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the Township of Fredon

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).

- Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions

- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community

- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Keith Festa

Position/Department: OEM Coordinator

Phone Number: 516-456-1374

Email Address: firecop1534@gmail.com

Alternate/Secondary POC: Carl Lazzaro

Position/Department: Third OEM Coordinator

Phone Number: 973-464-5030

Email Address: cfl1@ptd.net

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA Debra Prommel

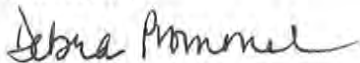
Position/Department: Acting Municipal Clerk

Phone Number: 973-383-7025, Ext. 22

Email Address: clerk@fredonnj.gov

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,



Debra Prommel

Acting Municipal Clerk



Township of Green

P.O. BOX 65, 150 KENNEDY RD.
TRANQUILITY, N.J. 07879
TELEPHONE: (908) 852-9333
FAX: (908) 852-1972

September 15, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Green Township

Dear Sheriff Strada:

Per your letter, the municipality of Green Township, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Green Township:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
 - Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas

- Identification of natural hazard events and losses that have impacted your community in the last five years
- Identification of plans, studies, reports and ordinances addressing natural hazard risk
- Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Mark Zschack

Position/Department: Municipal Clerk/Administrator

Phone Number: 908-852-9333 ext. 18

Email Address: clerkadmin@greentwp.com

Alternate/Secondary POC: Margaret “Peg” Phillips

Position/Department: Mayor

Phone Number: 908-852-9333

Email Address: pphillips@greentwp.com

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA: Cory Stoner

Position/Department: Township Engineer

Phone Number: 973-948-6463

Email Address: cstoner@hpellow.com

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,



Mark Zschack, RMC, CMR, CPWM
Township Clerk/Administrator

Date 8/5/2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Borough Of Hamburg

Dear Sheriff Strada:

Per your letter, the municipality of Hamburg Borough, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Hamburg Borough :

1. Authorizes the Sussex County HMP Steering Committee (aka “Steering Committee”), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this “Authorization and Acknowledgement” letter to the Sussex County Sheriff’s Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
 - Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development

- Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
 - Review draft plan sections when requested and provide comment and input as appropriate.
 - Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
 - Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
 - Involve your local NFIP Floodplain Administrator in the planning process.
 - Adopt the HMP by resolution of their governing body after FEMA conditional approval.
 - Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Keith Sukennikoff

Position/Department: OEM Coordinator

Phone Number: (973) 670-0105

Email Address: oem @Hamburgnj.org

Alternate POC : Michael Postorino

Position/Department: Public Safety / Police Director

Phone Number: 973-827-9230

Email Address: mpostorino@hamburgpolice.org

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA : John Ruschke

Position/Department: Borough Engineer

Phone Number: 973-827-9230

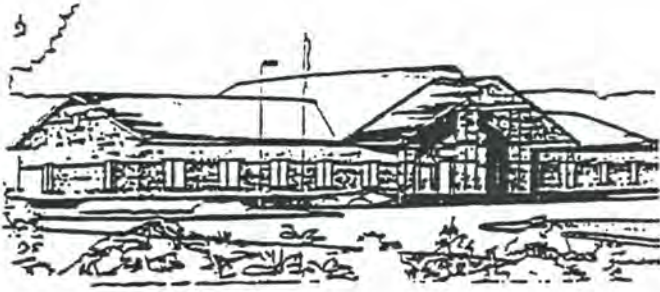
Email Address:

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Keith Sukennikoff

Hamburg OEM



TOWNSHIP OF HAMPTON

1 Rumsey Way

Newton, NJ 07860

P: 973-383-5570 • F: 973-383-8969

Jessica M. Caruso
Township CFO / Administrator

Kathleen Armstrong, RMC
Township Clerk

August 20, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Hampton Township

Dear Sheriff Strada:

Per your letter, the municipality of Hampton Township, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Hampton Township:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
 - Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:

- Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
 - Review draft plan sections when requested and provide comment and input as appropriate.
 - Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
 - Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
 - Involve your local NFIP Floodplain Administrator in the planning process.
 - Adopt the HMP by resolution of their governing body after FEMA conditional approval.
 - Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

**Primary POC: Edward Hayes
Management Coordinator**

Position/Department: Township Emergency

Phone Number: 973-592-2767

Email Address: biged5679@yahoo.com

**Alternate/Secondary POC: Jessica M. Caruso
Administrator**

Position/Department: Township

Phone Number: 973-383-5570
nj.org

Email Address: administrator@hamptontwp-

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA: Harold E. Pellow

Position/Department: Township Engineer

Phone Number: 973-948-6463

Email Address: hpellow@hpellow.com

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Caruso". The signature is fluid and cursive, with a large loop at the end.

Jessica M. Caruso
Township CFO/Administrator
Hampton Township



TOWNSHIP OF HARDYSTON

HARDYSTON, NEW JERSEY 07419

Carrine Piccolo-Kaufner, P.P., AICP
Township Manager/Planner
149 Wheatworth Road, Suite A
Hardyston, NJ 07419
(973) 823-7020
Extension: 9444
Fax: (973) 823-7021
E-mail: ckaufner@hardyston.com

8/14/2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of _Hardyston Township, Sussex County NJ

Dear Sheriff Strada:

Per your letter, the municipality of Hardyston Township, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Hardyston Township:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
 - Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas

- Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
 - Review draft plan sections when requested and provide comment and input as appropriate.
 - Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
 - Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
 - Involve your local NFIP Floodplain Administrator in the planning process.
 - Adopt the HMP by resolution of their governing body after FEMA conditional approval.
 - Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: William Hickerson OEM Coordinator: 973-615-5687
 Email Address: Wmhickerson@gmail.com


Alternate/Secondary Carrine Piccolo-Kaufer Township Manager/Planner: 973-823-7020
 Email Address: cpiccolo@hardyston.com

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA Joseph Butto Construction: 973-823-7020
 Email: Jbutto@hardyston.com

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,



Carrine Piccolo-Kaufner
Township Manager



Borough of Hopatcong

MUNICIPAL BUILDING
111 RIVER STYX ROAD
HOPATCONG, NEW JERSEY 07843-1535
(973) 770-1200
FAX: (973) 770-0301
Web site: <http://www.hopatcong.org>

9/21/2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of The Borough of Hopatcong

Dear Sheriff Strada:

Per your letter, the municipality of The Borough of Hopatcong, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of the Borough of Hopatcong:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
 - Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions

- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community

- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Wade Crowley

Position/Department: OEM

Phone Number: 973-390-0988

Email Address: wcrowley@hopatcong.org

Alternate/Secondary POC: Ron Tappan

Position/Department: Administrator

Phone Number: 973-770-1200

Email Address: rtappan@hopatcong.org

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA **NA**

Position/Department:

Phone Number:

Email Address:

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

A handwritten signature in black ink, appearing to read "Wade Crowley". The signature is fluid and cursive, with a large, sweeping flourish at the end.

Wade Crowley
Hopatcong OEM Coordinator



LAFAYETTE TOWNSHIP

33 Morris Farm Road

Lafayette, NJ 07848

(973) 383-1817

Fax (973) 383-0566

Website: www.lafayettetwp.org

August 4, 2020

Alan R. Henderson
Mayor

AnnaRose Fedish, RMC
Municipal Clerk

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Lafayette Township

Dear Sheriff Strada:

Per your letter, the municipality of Lafayette Township is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Lafayette Township:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.

2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:

- Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
- Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
- Support the Steering Committee selected to oversee the development of this plan.
- Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
- Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:

- *Structure and facility inventory data
 - *Identification of new development and anticipated development
 - *Identification of natural hazard risk areas
 - *Identification of natural hazard events and losses that have impacted your community in the last five years
 - *Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - *Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - *Providing notices of the planning project on our municipal website if available with links to a County project website
 - *Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - *Advertising and supporting public meetings in your area.
 - *Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
 - Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
 - Review draft plan sections when requested and provide comment and input as appropriate.
 - Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
 - Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
 - Involve your local NFIP Floodplain Administrator in the planning process.
 - Adopt the HMP by resolution of their governing body after FEMA conditional approval.
 - Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Richard Hughes **Position/Department: Committeeman/EMC**

Phone Number: 973-985-5971 **Email Address: hughesr22@gmail.com**

Alternate/Secondary POC: Bill Macko **Position/Department: Road Foreman/Roads**

Phone Number: 973-841-0415 **Email Address: ltrd@ptd.net**

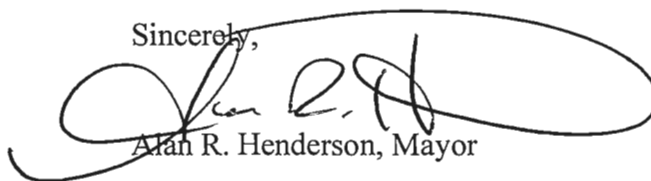
4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA: Debra Card **Position/Department: Zoning Officer/Zoning**

Phone Number: 973-383-1817 x12 **Email Address: zoning@lafayettewp.org**

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

A handwritten signature in black ink, appearing to read "Alan R. Henderson", enclosed within a large, loopy oval scribble.

Alan R. Henderson, Mayor

MONTAGUE TOWNSHIP RESOLUTION


RESOLUTION 2020-79

**A RESOLUTION AUTHORIZING THE MAYOR TO SUBMIT LETTER
OF INTENT FOR MONTAGUE TOWNSHIP TO PARTICIPATE IN THE
2021 SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD
MITIGATION PLAN UPDATE**

NOW, THEREFORE, BE IT RESOLVED that the Township Committee of the Township of Montague, County of Sussex, State of New Jersey hereby authorizes the Mayor to submit a Letter of Intent for Montague Township to participate in the 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update to Sherrif Michael Strada, Office of the Sheriff, Division of Emergency Management.

Approved: August 11, 2020

ATTEST:


Eileen DeFabiis, RMC



Richard E. Innella, Mayor

Upon roll call, the vote was recorded as follows:

Committeewoman Crawford:	aye	Committeeman Zitone:	aye
Committeewoman Martin:	aye	Mayor Innella:	aye
Committeeman Merusi	aye		

CERTIFICATION

I, Eileen DeFabiis, Municipal Clerk of the Township of Montague, County of Sussex, State of New Jersey, do hereby certify the foregoing to be a true and exact copy of the resolution duly adopted by the Township Committee of the Township of Montague on this 11th day of August 2020.


Eileen DeFabiis, RMC
Municipal Clerk



Township of Montague

"The Top of New Jersey"

*277 Clove Road
Montague, NJ 07827
Phone: (973)293-7300
Fax: (973)293-7467*

August 11, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate Municipality of
Montague Township

Dear Sheriff Strada:

Per your letter, the municipality of Montague Township, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Montague Township:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).

- Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

Sherrif Michael F. Strada
Page 2
August 11, 2020

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC:

David Coss

Phone Number:

908-319-1811

Position/Department:

OEM Coordinator

Email Address:

coss1101@yahoo.com

Alternate/Secondary POC:

Eileen DeFabiis

Phone Number:

973-293-7300

Position/Department:

Clerk

Email Address:

clerk@montaguenj.org

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA

Robert Huber

Phone Number:

973-293-3366

Position/Department:

Construction Official/Plumbing Sub-Code Official

Email Address:

construction@montaguenj.org

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,
MONTAGUE TOWNSHIP


Richard E. Innella, Mayor

Mayor
Sandra Lee Diglio

Deputy Mayor
Daniel G. Flynn

Council Members
Matthew S. Dickson
Jason J. Schlaffer
Helen R. Le Frois



Town Manager
Thomas S. Russo, Jr.

Town Clerk
Lorraine A. Read

Telephone: (973) 383-3521
Facsimile: (973) 383-8961
39 Trinity Street
Newton, NJ 07860

August 16, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Sheriff Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: **2020 Sussex Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Town of Newton**

Dear Sheriff Strada,

Per your letter, the Town of Newton, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the Town of Newton:

1. Authorizes the Sussex County HMP Steering Committee (a.k.a. "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
 - Provide data and information about our community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:

- Structure and facility inventory data
- Identification of new development and anticipated development
- Identification of natural hazard risk areas
- Identification of natural hazard events and losses that have impacted your community in the last five years
- Identification of plans, studies, reports, and ordinances addressing natural hazard risk
- Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to the Points of Contacts (POCs) for our jurisdiction. We understand these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Dan Finkle

Position/Department: Deputy OEM Coordinator

Phone Number: 973-383-3521 x267

Email Address: dfinkle@newtonoem.org

Alternate/Secondary POC: Ken Teets

Position/Department: OEM Coordinator

Phone Number: 973-383-3521 x362

Email Address: kteets@newtonoem.org

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA: Cory Stoner

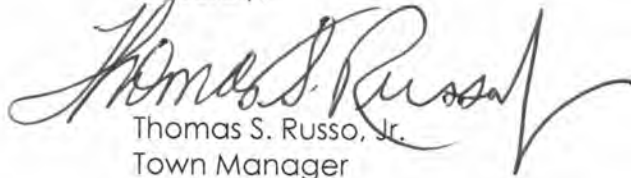
Position/Department: Town Engineer

Phone Number: 973-948-6463

Email: cstoner@hpellow.com

5. Recognizes failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas S. Russo, Jr.", with a large, sweeping flourish extending to the right.

Thomas S. Russo, Jr.
Town Manager
Town of Newton



August 14, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Ogdensburg

Dear Sheriff Strada:

Per your letter, the municipality of Ogdensburg, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Ogdensburg.

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office — Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (— 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
 - Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions

BOROUGH OF OGDENSBURG



14 Highland Avenue
Ogdensburg, NJ 07439
973-827-3444
FAX 973-827-9602

ADMINISTRATIVE OFFICES
George P. Hutnick, MAYOR
Robin Hough, RMC/CMR

- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website.
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC:
Richard Keslo

Position/Department:
Emergency Management

Phone number:
201-400-9873

Email Address:
OFDchief251@yahoo.com

Alternate/Secondary POC:
George P. Hutnick

Position/Department:
Mayor

Phone number:
973-903-1239

Email Address:
oburgmayor@gmail.com

BOROUGH OF OGDENSBURG



14 Highland Avenue
Ogdensburg, NJ 07439
973-827-3444
FAX 973-827-9602

ADMINISTRATIVE OFFICES
George P. Hutnick, MAYOR
Robin Hough, RMC/CMR

4 Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA
George P. Hutnick

Position/Department
Mayor

Phone Number:
973-903-1239

Email Address:
oburgmayor@gmail.com

5 Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Richard S. Keslo, OEM Coordinator

cc George P. Hutnick, Mayor (via email)
Chief Stephen Gordon (via email)



SANDYSTON TOWNSHIP

133 Route 645 - Sandyston, NJ 07826
Tel: 973.948.3520 • Fax: 973.948.0783
www.sandystontownship.com

August 21, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Sandyston

Dear Sheriff Strada:

Per your letter, the municipality of Sandyston Township, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Sandyston Township.

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.

2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:

- Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
- Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
- Support the Steering Committee selected to oversee the development of this plan.
- Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
- Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk

- Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Stanley J. Dutkus Position/Department: Emergency Management

**Phone Number: 973-293-3003 (H) Email Address: standsr@optonline.net
973-222-7902 (C)**

Authorization and Letter of Intent to Participate
Municipality of Sandyston
August 21, 2020
Page 3

Alternate/Secondary POC: Fred V. MacDonald Position/Department: Emergency Management

Phone Number: 973-919-3081 (C)

Email Address: clerk@sandystontownship.com

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA: Robert W. Huber

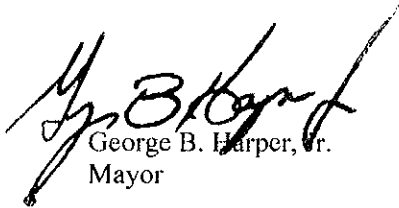
Position/Department: Construction Official

Phone Number: 973-948-3520 x201

Email Address: deputyclerk@sandystontownship.com

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,



George B. Harper, Jr.
Mayor

GBH:af1

cc: Stanley J. Dutkus, Emergency Management

TOWNSHIP OF SPARTA

POLICE DEPARTMENT



65 MAIN STREET
SPARTA, NEW JERSEY 07871 - 1986
TEL: (973) 729-6121

August 14, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Sparta

Dear Sheriff Strada:

Per your letter, the municipality of Sparta , is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Sparta :

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
 - Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions

- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Neil Spidaletto OEM Coordinator **Position/Department:**

Phone Number: 973-726-4011 **Email**
Address: nspidaletto@spartapd.org

Alternate/Secondary POC: William Close Deputy OEM Coordinator
Position/Department:

Phone Number: 973-726-4000 **Email**
Address: william.close@spartanj.org

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA Stan Puszcz Township Engineer **Position/Department:**

Phone Number: 973-300-9003 **Email Address:** stan.puszcz@cpengineers.com

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,



Borough of Stanhope, Sussex County, New Jersey

77 Main Street, Stanhope, NJ 07874

Tel: 973-347-0159

Administrator's Office

Brian S. McNeilly

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

September 10th, 2020

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate – Borough of Stanhope

Dear Sheriff Strada:

Per your letter, the Borough of Stanhope, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the Borough of Stanhope;

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.

2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:

- Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
- Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
- Support the Steering Committee selected to oversee the development of this plan.
- Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
- Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:

- Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
 - Review draft plan sections when requested and provide comment and input as appropriate.
 - Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
 - Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
 - Involve your local NFIP Floodplain Administrator in the planning process.
 - Adopt the HMP by resolution of their governing body after FEMA conditional approval.
 - Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

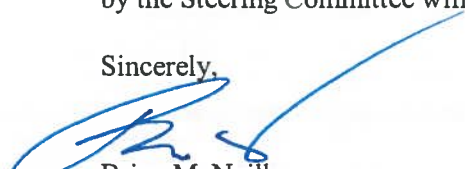
Primary POC: Brian McNeilly	Position/Department: Borough Administrator
Phone Number: (973) 347-0159 Ext 14	Email Address: bmcneilly@stanhopenj.gov
Alternate/Secondary POC: Eric Keller	Position/Department: Borough Engineer
Phone Number: (973) 291-2919	Email Address: ekeller@bowmanconsulting.com

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA: Thomas Pershouse	Position/Department: Construction Official
Phone Number: (973) 347-0159 Ext 20	Email Address: tminniti@stanhopenj.gov

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,



Brian McNeilly
Administrator



Stillwater Township
964 Stillwater Road
Stillwater NJ 07860

August 18, 2020

Sheriff Michael Strada

Office of the Sheriff

Division of Emergency Management

135 Morris Turnpike

Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update Authorization and Letter of Intent to Participate Municipality of Stillwater Township

Dear Sheriff Strada:

Per your letter, the municipality of Stillwater, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Stillwater

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.

- Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
- Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Lisa Chammings

Position/Department: Mayor and OEM

Phone Number: 973-903-3003

Email Address: lchammings@ptd.net

Alternate/Secondary POC: Robert Wolfe

Position/Department: Deputy OEM

Phone Number: 973-900-1559

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA: Arlene Fisher

Position/Department: Zoning Officer

Phone Number: 973-383-9484

Email Address: zoning@ptd.net

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Lisa Chammings

Mayor and OEM Coordinator

Stillwater Township



Borough of Sussex

2 Main Street
Sussex, New Jersey 07461
Phone: 973-875-4831
Facsimile: 973-875-6261

August 12, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Sussex Borough

Dear Sheriff Strada:

Per your letter, the municipality of Sussex Borough is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Sussex Borough:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
 - Support the Steering Committee selected to oversee the development of this plan.
 - Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
 - Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas

- Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
 - Review draft plan sections when requested and provide comment and input as appropriate.
 - Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
 - Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
 - Involve your local NFIP Floodplain Administrator in the planning process.
 - Adopt the HMP by resolution of their governing body after FEMA conditional approval.
 - Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Floyd Southard

Position/Department: OEM Coordinator

Phone Number: (973) 534-7258

Email Address: oem@sussexboro.com

**Alternate/Secondary POC: Robert Regavich
Coordinator**

Position/Department: Deputy OEM

Phone Number: (973) 271-2047

Email Address: rregavich@gmail.com

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA **Kevin Kervatt**

Position/Department: **Zoning Officer**

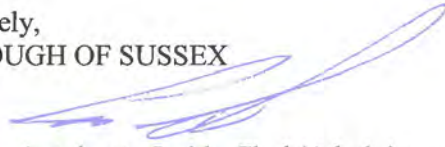
Phone Number: **973-875-4831**

Email Address: **zoning@sussexboro.com**

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,
BOROUGH OF SUSSEX

By:



Antoinette Smith, Clerk/Administrator



Township of Vernon

21 Church Street
Vernon, New Jersey 07462

Telephone 973-764-4055

www.vernontwp.com

August 20, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Vernon Township

Dear Sheriff Strada:

Per your letter, the municipality of Vernon is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Vernon:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.

2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:

- Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
- Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
- Support the Steering Committee selected to oversee the development of this plan.
- Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
- Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas

- Identification of natural hazard events and losses that have impacted your community in the last five years
- Identification of plans, studies, reports and ordinances addressing natural hazard risk
- Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC:
Ken Clark

Position/Department:
OEM Coordinator

Phone Number:
973-600-7612

Email Address:
kenclark213@gmail.com

Alternate/Secondary POC:
Dan Young

Position/Department:
Deputy OEM Coordinator/Police Chief

Phone Number:
973-764-6155

Email Address:
dbyoung43@vernonpolice.com

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA
Robert Westenberger

Position/Department:
Construction Official

Phone Number:
(973) 764-4055

Email Address:
rwestenberger@vernontwp.com

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Ken Clark
OEM Coordinator

WALPACK TOWNSHIP

Main Street
Walpack Center, NJ 07881

10 September 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of Walpack Township

Dear Sheriff Strada:

Per your letter, the municipality of Walpack Township is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of Walpack Township:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.

2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:

- Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
- Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
- Support the Steering Committee selected to oversee the development of this plan.
- Provide representation at municipal Planning Committee meetings (~ 4 meetings over 9 months, including a Kick-Off Meeting, Risk Assessment Meeting, a Jurisdictional Annex Workshop meeting and a Draft HMP meeting).
- Provide data and information about your community as requested by the Sussex County Division of Emergency Management, or the contract consultant, to update your jurisdictional annex including:
 - Structure and facility inventory data
 - Identification of new development and anticipated development
 - Identification of natural hazard risk areas
 - Identification of natural hazard events and losses that have impacted your community in the last five years
 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions

- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
 - Advertising and supporting public meetings in your area.
 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
- Assist with the identification of stakeholders within your community that should be informed and potentially involved with the planning process.
- Review draft plan sections when requested and provide comment and input as appropriate.
- Prepare and submit a Jurisdictional Annex to the Steering Committee and/or the contract consultant. Templates and instructions to aid in the compilation of this information will be provided to all participating partners. Each partner will be expected to complete their templates in a timely manner and according to the timeline specified by the Steering Committee. The Steering Committee will assure that technical and administrative resources are available to assist with the preparation and completion of the annexes including meeting with the contract consultant to facilitate the review and update.
- Identify specific mitigation actions to address each of the natural hazards posing high or medium risk to your community. These initiatives will be presented in your annex.
- Involve your local NFIP Floodplain Administrator in the planning process.
- Adopt the HMP by resolution of their governing body after FEMA conditional approval.
- Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Victor J. Maglio

Position/Department: Mayor/Emergency Operations

Phone Number: 973-479-6976

Email Address: walpackmayor@gmail.com

Alternate/Secondary POC: NONE

Position/Department:

Phone Number:

Email Address:

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA

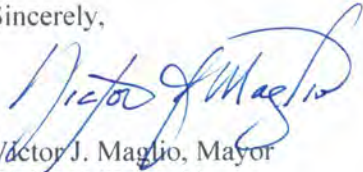
Position/Department:

Phone Number:

Email Address:

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

A handwritten signature in blue ink that reads "Victor J. Maglio". The signature is written in a cursive style with a large, looping initial "V".

Victor J. Maglio, Mayor
Walpack Township

Township of Wantage

888 State Route 23
Wantage, New Jersey 07461-3318

Phone (973) 875-7192
Fax (973) 875-0801
www.wantagetwp.com



Date: July 30, 2020

Sheriff Michael Strada
Office of the Sheriff
Division of Emergency Management
135 Morris Turnpike
Newton, NJ 07860

Subject: 2021 Sussex County Multi-Jurisdictional Hazard Mitigation Plan Update
Authorization and Letter of Intent to Participate
Municipality of WANTAGE

Dear Sheriff Strada:

Per your letter, the municipality of WANTAGE, is committed to participating in the Sussex County Multi-Jurisdictional Hazard Mitigation Plan (HMP) update project. By way of this letter, the municipality of WANTAGE:

1. Authorizes the Sussex County HMP Steering Committee (aka "Steering Committee"), to guide and direct this planning process, perform certain parts of the planning process, and prepare certain parts of the plan documents on our behalf.
2. Agrees to meet the minimum requirements of jurisdictional participation (a.k.a. the Planning Partner Expectations), specifically:
 - Execute and return this "Authorization and Acknowledgement" letter to the Sussex County Sheriff's Office – Division of Emergency Management, attention: Jennifer Van Der Wende.
 - Identify municipal representatives to serve as the planning point of contacts (POC), below. These people will be responsible for representing their community and assuring that these participation expectations are met by their community.
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 - Identification of new development and anticipated development

- Identification of natural hazard risk areas
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 - Identification of plans, studies, reports and ordinances addressing natural hazard risk
 - Identify mitigation activity in your community in the last five years, including progress on previously identified mitigation actions
- Support public outreach efforts in your community which may include:
 - Providing notices of the planning project on our municipal website if available with links to a County project website
 - Providing notice of the planning project, the availability of plan documents, and notice of public meetings via available local media (e.g. newsletters, flyers, email blasts, social media, etc.)
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 - Supporting outreach to NFIP Repetitive Loss and Severe Repetitive Loss property owners in your community
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 - Involve your local NFIP Floodplain Administrator in the planning process.
 - Adopt the HMP by resolution of their governing body after FEMA conditional approval.
 - Provide the Steering Committee with summary or municipal staff and volunteer labor spent on the planning process on a monthly basis.

3. Assigns the following persons to be the Points of Contact (POCs) for our jurisdiction. We understand that these POCs are responsible for assuring municipal representation at Planning Committee meetings/calls and assuring that the other minimum requirements of jurisdictional participation, as detailed in the Planning Partner Expectations above, are met.

Primary POC: Joe Konopinski

Position/Department: OEM

Phone Number: 973-222-7269

Email Address: jkonopin@ptd.net

Alternate/Secondary POC: Michael Restel

Position/Department: Administrator

Phone Number: 973-647-5015

Email Address: mike@wantagetwp-nj.org

4. Our designated local Floodplain Administrator (FPA) under the National Flood Insurance Program (NFIP) is:

Name of NFIP FPA **Harold Pellow**

Position/Department: **Engineer**

Phone Number: **973-948-6463**

Email Address: **hpellow@hpellow.com**

5. Recognizes that failure to meet the minimum participation expectations and deadlines, as determined by the Steering Committee will result in our municipality being excluded from the planning process.

Sincerely,

Joe Konopinski
Wantage Township OEM



B.3 HAZARDS OF CONCERN REVIEW AND RANKING EXERCISES

At the August 2020 Steering Committee kickoff meeting and September 2020 municipal kickoff meeting, representatives were asked to contribute to the hazard identification exercise by reviewing the 2016 hazards of concern and indicating whether there has been a change in hazard event frequency, magnitude or severity over the last few years. In addition, the natural hazards that present the most risk were reported, as well as impacts due to small or nuisance events that need to be addressed.

At the October 2020 risk assessment meeting, Steering Committee and municipal representatives were asked to review their draft risk assessment results based on the calculated hazard ranking using an updated hazard ranking formula. The review and updates to the draft municipal-specific hazard ranking results were captured on worksheets which were distributed to the points of contact and meeting representatives for each municipality. In addition, the municipal-specific adaptive capacity to hazard events was discussed as related to the individual municipalities and the County as a whole. The municipal-specific adaptive capacity was captured for each hazard of concern on the following worksheets as well. If a municipality was not present at the risk assessment meeting or if the municipality attended the meeting but did not submit a worksheet, their input was collected at individual local annex preparation meetings and reflected in their jurisdictional annex.



Borough of Branchville

Name/Titles of contributors to this worksheet: Jeff Lewis Coordinator, OEM _____

Please work with your mitigation planning team and complete this worksheet.
Please send electronic Word version by October 30, 2020 to Chris Huch (Tetra Tech)
E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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.

Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	
Disease Outbreak	Moderate	
Drought	Moderate	
Earthquake	Moderate	
Flood	Moderate	
Geological Hazards	Moderate	
Hazardous Materials	Moderate	
Hurricane and Tropical Storm	Moderate	
Infestation and Invasive Species	Moderate	
Nor’Easter	Moderate	
Severe Weather	Moderate	
Severe Winter Weather	Strong	
Wildfire	Moderate	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.





What is a Hazard Ranking?

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

Hazard Ranking Equation

$$[\text{Probability of Occurrence} \times 0.40] + [(\text{Impact on Population} \times 3) + (\text{Impact on Property} \times 2) + (\text{Impact on Economy} \times 1) \times 0.40] + [\text{Adaptive Capacity} \times 0.15] + [\text{Climate Change} \times 0.05]$$

What is my Hazard Ranking?

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Hazard	Countywide		Municipality		
	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021	
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking
Dam Failure	Medium	Medium	Medium	Low	Y
Disease Outbreak	N/A	Medium	N/A	Medium	Y
Drought	Medium	Medium	Medium	Medium	Y
Earthquake	Medium	Low	Medium	Low	Y
Flood	Medium	Medium	Medium	Medium	Y
Geological	High	Medium	Medium	Medium	Y
Hazardous Materials	High	High	High	Medium	Y
Hurricane/Tropical Storm	High	High	High	High	Y
Invasive Species and Infestation	N/A	High	N/A	Medium	Y
Nor'Easter	High	High	High	High	Y
Severe Weather	High	High	High	High	Y
Severe Winter Weather	High	High	High	High	Y
Wildfire	Medium	Medium	Medium	Low	Y

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Byram

Name/Titles of contributors to this worksheet: __ Thomas Koundry EMC Byram
Twp. _____

Please work with your mitigation planning team and complete this worksheet.
Please send electronic Word version by October 30, 2020 to Chris Huch (Tetra Tech)
E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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- **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.

Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	Agree
Disease Outbreak	Moderate	Agree
Drought	Moderate	Agree
Earthquake	Moderate	Agree
Flood	Moderate	Agree
Geological Hazards	Moderate	Agree
Hazardous Materials	Moderate	Agree
Hurricane and Tropical Storm	Moderate	Agree
Infestation and Invasive Species	Moderate	Agree
Nor’Easter	Moderate	Agree
Severe Weather	Moderate	Agree
Severe Winter Weather	Strong	Agree
Wildfire	Moderate	Agree

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.





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Hazard	Countywide		Municipality			
	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021		
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	High	Medium	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Flood**	Medium	Y	
Geological	High	Medium	Low	High	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	Low	Y	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Frankford

Name/Titles of contributors to this worksheet: Jeff Lewis Coordinator, OEM _____

Please work with your mitigation planning team and complete this worksheet.
Please send electronic Word version by October 30, 2020 to Chris Huch (Tetra Tech)
E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	
Disease Outbreak	Moderate	
Drought	Moderate	
Earthquake	Moderate	
Flood	Moderate	
Geological Hazards	Moderate	
Hazardous Materials	Moderate	
Hurricane and Tropical Storm	Moderate	
Infestation and Invasive Species	Moderate	
Nor’Easter	Moderate	
Severe Weather	Moderate	
Severe Winter Weather	Strong	
Wildfire	Moderate	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.





What is a Hazard Ranking?

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What is my Hazard Ranking?

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	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021	
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking
Dam Failure	Medium	Medium	Medium	Low	Y
Disease Outbreak	N/A	Medium	N/A	Medium	Y
Drought	Medium	Medium	Medium	Medium	Y
Earthquake	Medium	Low	Medium	Low	Y
Flood	Medium	Medium	Medium	Medium	Y
Geological	High	Medium	Medium	Medium	Y
Hazardous Materials	High	High	High	Medium	Y
Hurricane/Tropical Storm	High	High	High	High	Y
Invasive Species and Infestation	N/A	High	N/A	Medium	Y
Nor'Easter	High	High	High	High	Y
Severe Weather	High	High	High	High	Y
Severe Winter Weather	High	High	High	High	Y
Wildfire	Medium	Medium	High	Low	Y

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Green

Name/Titles of contributors to this worksheet: Mark Zschack

Please work with your mitigation planning team and complete this worksheet.
Please send electronic Word version by October 30, 2020 to Chris Huch (Tetra Tech)
E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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- **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.

Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	
Disease Outbreak	Moderate	
Drought	Moderate	
Earthquake	Moderate	
Flood	Moderate	
Geological Hazards	Moderate	
Hazardous Materials	Moderate	
Hurricane and Tropical Storm	Moderate	
Infestation and Invasive Species	Moderate	
Nor’Easter	Moderate	
Severe Weather	Moderate	
Severe Winter Weather	Strong	
Wildfire	Moderate	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.





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				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	High	Medium	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	Medium	Low	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	Low	Y	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Hardyston

Name/Titles of contributors to this worksheet: William Hickerson

Please work with your mitigation planning team and complete this worksheet.
Please send electronic Word version by October 30, 2020 to Chris Huch (Tetra Tech)
E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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- **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.

Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	
Disease Outbreak	Moderate	
Drought	Moderate	
Earthquake	Moderate	
Flood	Moderate	
Geological Hazards	Moderate	
Hazardous Materials	Moderate	
Hurricane and Tropical Storm	Moderate	
Infestation and Invasive Species	Moderate	
Nor’Easter	Moderate	
Severe Weather	Moderate	
Severe Winter Weather	Strong	
Wildfire	Moderate	

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	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021		
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	High	Low	no	medium
Disease Outbreak	N/A	Medium	N/A	Medium		
Drought	Medium	Medium	Medium	Medium		
Earthquake	Medium	Low	Medium	Low	no	medium
Flood	Medium	Medium	Medium	Medium		
Geological	High	Medium	Medium	Low		
Hazardous Materials	High	High	High	Medium		
Hurricane/Tropical Storm	High	High	High	High		
Invasive Species and Infestation	N/A	High	N/A	Medium		
Nor'Easter	High	High	High	High		
Severe Weather	High	High	High	High		
Severe Winter Weather	High	High	High	High		
Wildfire	Medium	Medium	High	Medium		

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Borough of Hopatcong

Name/Titles of contributors to this worksheet: Hopatcong _____

Please work with your mitigation planning team and complete this worksheet.
 Please send electronic Word version by October 30, 2020 to Chris Huch (Tetra Tech)
 E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	Weak
Disease Outbreak	Moderate	Moderate
Drought	Moderate	Weak
Earthquake	Moderate	Weak
Flood	Moderate	Weak
Geological Hazards	Moderate	Weak
Hazardous Materials	Moderate	Weak
Hurricane and Tropical Storm	Moderate	Moderate
Infestation and Invasive Species	Moderate	Strong
Nor’Easter	Moderate	Moderate
Severe Weather	Moderate	Moderate
Severe Winter Weather	Strong	Moderate
Wildfire	Moderate	Weak

*Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.*





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Hazard	Countywide		Municipality			
	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021		
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	Medium	Medium	Y	None
Disease Outbreak	N/A	Medium	N/A	Medium	Y	Covid
Drought	Medium	Medium	Medium	Medium	N Low	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	N Low	
Geological	High	Medium	Low	Low	Y	
Hazardous Materials	High	High	High	Medium	N Low	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	N High	HAB
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	Low	Y	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Lafayette

Name/Titles of contributors to this worksheet: R Hughes, EMC / B Macko, Fire Chief

Please work with your mitigation planning team and complete this worksheet.
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E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	
Disease Outbreak	Moderate	
Drought	Moderate	
Earthquake	Moderate	
Flood	Moderate	
Geological Hazards	Moderate	
Hazardous Materials	Moderate	
Hurricane and Tropical Storm	Moderate	
Infestation and Invasive Species	Moderate	
Nor’Easter	Moderate	
Severe Weather	Moderate	
Severe Winter Weather	Strong	
Wildfire	Moderate	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.





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				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	Medium	Low	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	Medium	Low	Y	
Hazardous Materials	High	High	High	Medium	N	Two major highways traverse Lafayette, county roads also – major routes for haz mat carriers, Lafayette has limited response capabilities. If the state highway or county road is shutdown (as has happened in the past)then detours go on local roads . Should remain as High
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	



Hazard	Countywide		Municipality			
	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021		
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	Low	Y	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Montague

Name/Titles of contributors to this worksheet: Jesse Brace-Revak Montague Township DEMC

Please work with your mitigation planning team and complete this worksheet.
Please send electronic Word version by October 30, 2020 to Chris Huch (Tetra Tech)
E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	Agree
Disease Outbreak	Moderate	Agree
Drought	Moderate	Agree
Earthquake	Moderate	Agree
Flood	Moderate	Agree
Geological Hazards	Moderate	Agree
Hazardous Materials	Moderate	Agree
Hurricane and Tropical Storm	Moderate	Agree
Infestation and Invasive Species	Moderate	Agree
Nor’Easter	Moderate	Agree
Severe Weather	Moderate	Agree
Severe Winter Weather	Strong	Agree
Wildfire	Moderate	Agree

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Hazard Ranking Equation

$$[\text{Probability of Occurrence} \times 0.40] + [(\text{Impact on Population} \times 3) + (\text{Impact on Property} \times 2) + (\text{Impact on Economy} \times 1) \times 0.40] + [\text{Adaptive Capacity} \times 0.15] + [\text{Climate Change} \times 0.05]$$

What is my Hazard Ranking?

The following table represents the calculated rankings for the hazards of concern for the County and 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.

Hazard	Countywide		Municipality			
	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021		
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	High	Medium	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	High	Low	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Low	N	Changed from med
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	High	Medium	Y	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Sandyston

Name/Titles of contributors to this worksheet: Stanley J. Dutkus, OEM/Amanda F. Lobban, Clerk

Please work with your mitigation planning team and complete this worksheet.
Please send electronic Word version by October 30, 2020 to Chris Huch (Tetra Tech)
E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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.

Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	Majority of the Dams are on State Property, the ones on private property should have a plan/procedure in place
Disease Outbreak	Moderate	
Drought	Moderate	
Earthquake	Moderate	
Flood	Moderate	
Geological Hazards	Moderate	
Hazardous Materials	Moderate	
Hurricane and Tropical Storm	Moderate	
Infestation and Invasive Species	Moderate	
Nor’Easter	Moderate	Rely on utilities to repair infrastructure and respond timely to restoration
Severe Weather	Moderate	Rely on utilities to repair infrastructure and respond timely to restoration
Severe Winter Weather	Strong	Rely on utilities to repair infrastructure and respond timely to restoration
Wildfire	Moderate	<i>Rely on State/Federal to maintain & respond</i>

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.





What is a Hazard Ranking?

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

Hazard Ranking Equation

$$[\text{Probability of Occurrence} \times 0.40] + [(\text{Impact on Population} \times 3) + (\text{Impact on Property} \times 2) + (\text{Impact on Economy} \times 1) \times 0.40] + [\text{Adaptive Capacity} \times 0.15] + [\text{Climate Change} \times 0.05]$$

What is my Hazard Ranking?

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Hazard	Countywide		Municipality			
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Dam Failure	Medium	Medium	High	Medium	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	High	High	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	High	Low	Y	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Sparta

Name/Titles of contributors to this worksheet: Neil Spidaletto OEM Coordinator/ Stan Puszczyk Township Engineer

Please send electronic Word version by October 30, 2020 to Chris Huch (Tetra Tech)
E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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- **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.

Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	
Disease Outbreak	Moderate	
Drought	Moderate	
Earthquake	Moderate	
Flood	Moderate	
Geological Hazards	Moderate	
Hazardous Materials	Moderate	
Hurricane and Tropical Storm	Moderate	
Infestation and Invasive Species	Moderate	
Nor’Easter	Moderate	
Severe Weather	Moderate	
Severe Winter Weather	Strong	
Wildfire	Moderate	<i>Agree with all of the above</i>

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.





What is a Hazard Ranking?

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

Hazard Ranking Equation

$$[\text{Probability of Occurrence} \times 0.40] + [(\text{Impact on Population} \times 3) + (\text{Impact on Property} \times 2) + (\text{Impact on Economy} \times 1) \times 0.40] + [\text{Adaptive Capacity} \times 0.15] + [\text{Climate Change} \times 0.05]$$

What is my Hazard Ranking?

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Hazard	Countywide		Municipality			
	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021		
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	High	Medium	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	Medium	Medium	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	Low	Y	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Stillwater

Name/Titles of contributors to this worksheet: _____ Lisa Chamblings

Please work with your mitigation planning team and complete this worksheet.
Please send electronic Word version by October 30, 2020 to Chris Huch (Tetra Tech)
E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

What is Adaptive Capacity?

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- **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.

Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	Plymouth lake dam is looking to be rebuilt and is looking for funding from NJDEP But Agree
Disease Outbreak	Moderate	Agree
Drought	Moderate	Agree
Earthquake	Moderate	Disagree. We have no buildings large enough that an earthquake would cause life threatening damage. Just an opinion more than a factual assessment
Flood	Moderate	Agree
Geological Hazards	Moderate	Agree
Hazardous Materials	Moderate	Agree
Hurricane and Tropical Storm	Moderate	Agree
Infestation and Invasive Species	Moderate	Agree
Nor’Easter	Moderate	Agree
Severe Weather	Moderate	Agree
Severe Winter Weather	Strong	Agree
Wildfire	Moderate	Agree

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.





What is a Hazard Ranking?

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Hazard Ranking Equation

$$[\text{Probability of Occurrence} \times 0.40] + [(\text{Impact on Population} \times 3) + (\text{Impact on Property} \times 2) + (\text{Impact on Economy} \times 1) \times 0.40] + [\text{Adaptive Capacity} \times 0.15] + [\text{Climate Change} \times 0.05]$$

What is my Hazard Ranking?

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Hazard	Countywide		Municipality			
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				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	Medium	Medium	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	Medium	Low	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	Low	Y	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Borough of Sussex

Name/Titles of contributors to this worksheet: Floyd Southard – OEM Coordinator

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 E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	agree
Disease Outbreak	Moderate	agree
Drought	Moderate	agree
Earthquake	Moderate	agree
Flood	Moderate	agree
Geological Hazards	Moderate	agree
Hazardous Materials	Moderate	agree
Hurricane and Tropical Storm	Moderate	agree
Infestation and Invasive Species	Moderate	agree
Nor’Easter	Moderate	agree
Severe Weather	Moderate	agree
Severe Winter Weather	Strong	dis-agree (we having aging equipment and limited manpower for a long duration storm) I believe this should be moderate
Wildfire	Moderate	agree

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.



What is a Hazard Ranking?

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Hazard Ranking Equation

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What is my Hazard Ranking?

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Hazard	Countywide		Municipality			
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Dam Failure	Medium	Medium	High	Medium	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	Low	Low	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	Low	Y	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Vernon

Name/Titles of contributors to this worksheet: Ken Clark

Please work with your mitigation planning team and complete this worksheet.
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E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	Agreed
Disease Outbreak	Moderate	Agreed
Drought	Moderate	Agreed
Earthquake	Moderate	Agreed
Flood	Moderate	Agreed
Geological Hazards	Moderate	Agreed
Hazardous Materials	Moderate	Agreed
Hurricane and Tropical Storm	Moderate	Agreed
Infestation and Invasive Species	Moderate	Agreed
Nor’Easter	Moderate	Agreed
Severe Weather	Moderate	Agreed
Severe Winter Weather	Strong	Agreed
Wildfire	Moderate	Agreed

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.





What is a Hazard Ranking?

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Hazard Ranking Equation

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Dam Failure	Medium	Medium	High	Medium	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	Medium	High	N Moderate	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	Low	No Medium	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Walpack

Name/Titles of contributors to this worksheet: Victor J. Maglio, Mayor

Please work with your mitigation planning team and complete this worksheet.
Please send electronic Word version by October 30, 2020 to Chris Huch (Tetra Tech)
E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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- **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.

Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex (Note 2)
Dam Failure	Moderate	Agree
Disease Outbreak	Moderate	Agree
Drought	Moderate	Agree
Earthquake	Moderate	Agree
Flood	Moderate	Agree
Geological Hazards	Moderate	Agree
Hazardous Materials	Moderate	Agree
Hurricane and Tropical Storm	Moderate	Agree
Infestation and Invasive Species	Moderate	Agree
Nor’Easter	Moderate	Agree
Severe Weather	Moderate	Agree
Severe Winter Weather	Strong	Agree
Wildfire	Moderate	Agree

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.

Note 2: “Jurisdiction Input” responses are based on the current availability of assets of the Sussex County OEM (SCOEM), and the ongoing willingness of the SCOEM to work with and support Walpack Township. Similar assumptions apply to the current availability of assets and efforts of the National Park Service (NPS).





What is a Hazard Ranking?

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Hazard	Countywide		Municipality (Note 2)			
	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021		
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	Medium	Low	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium*	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium*	Medium	Y	
Geological	High	Medium	High	High	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	High	Y	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.

Note 2: Responses are based on the current availability of assets of the Sussex County OEM (SCOEM), and the ongoing willingness of the SCOEM to work with and support Walpack Township. Similar assumptions apply to the current availability of assets and efforts of the National Park Service (NPS).





Township of Wantage

Name/Titles of contributors to this worksheet: Joe Konopinski

Please work with your mitigation planning team and complete this worksheet.
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 E-mail: chris.huch@tetratech.com Phone: (973) 630-8357

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Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	Agree
Disease Outbreak	Moderate	Agree
Drought	Moderate	Agree
Earthquake	Moderate	Agree
Flood	Moderate	Agree
Geological Hazards	Moderate	Agree
Hazardous Materials	Moderate	Agree
Hurricane and Tropical Storm	Moderate	Agree
Infestation and Invasive Species	Moderate	Agree
Nor’Easter	Moderate	Agree
Severe Weather	Moderate	Agree
Severe Winter Weather	Strong	Agree
Wildfire	Moderate	Agree

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What is a Hazard Ranking?

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Hazard Ranking Equation

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Dam Failure	Medium	Medium	Medium	Medium	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	Low	Medium	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	Low	N	Climate

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



Township of Wantage

Name/Titles of contributors to this worksheet: ___Michael L Restel ___ Administrator ___

Please work with your mitigation planning team and complete this worksheet.
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Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	AGREE
Disease Outbreak	Moderate	AGREE
Drought	Moderate	AGREE
Earthquake	Moderate	AGREE
Flood	Moderate	AGREE
Geological Hazards	Moderate	AGREE
Hazardous Materials	Moderate	AGREE
Hurricane and Tropical Storm	Moderate	AGREE
Infestation and Invasive Species	Moderate	AGREE
Nor’Easter	Moderate	AGREE
Severe Weather	Moderate	AGREE
Severe Winter Weather	Strong	AGREE
Wildfire	Moderate	AGREE

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking in page 2.





What is a Hazard Ranking?

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

Hazard Ranking Equation

$$[\text{Probability of Occurrence} \times 0.40] + [(\text{Impact on Population} \times 3) + (\text{Impact on Property} \times 2) + (\text{Impact on Economy} \times 1) \times 0.40] + [\text{Adaptive Capacity} \times 0.15] + [\text{Climate Change} \times 0.05]$$

What is my Hazard Ranking?

The following table represents the calculated rankings for the hazards of concern for the County and 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.

Hazard	Countywide		Municipality			
	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021		
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	Medium	Medium	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	Low	Medium	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	Low	N	CLIMATE

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.



B.4 SWOO EXERCISE

At the October 2021 risk assessment meeting, Steering Committee and municipal representatives were asked to participate in a Strengths, Weaknesses, Obstacles and Opportunities (SWOO) online exercise. Meeting participants were asked to focus their input on strengths, weaknesses, obstacles and opportunities for their community's high-ranked hazards. If a municipality was not present at the risk assessment meeting or attended the meeting but did not complete the SWOO exercise, their input was collected at individual local annex preparation meetings and reflected in their jurisdictional annex. The results of the SWOO were used to inform the Mitigation Development Worksheet distributed prior to the Mitigation Strategy Workshop to inform the updated mitigation strategy.

Sussex County Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

The purpose of the Strengths, Weaknesses, Obstacles, and Opportunities (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; what we can capitalize on
- Weaknesses – what could we do better; what we need to strengthen
- Obstacles – things that stand in the way and either prevent you from doing something or something that needs to be overcome (e.g. regulatory, geographical, environmental, financial)
- Opportunities – used to develop mitigation strategies.

For the current plan, a total of 13 hazards of concern were identified as significant hazards affecting the entire planning area, to be addressed at the county level in this plan:

1. Dam Failure
2. Disease Outbreak (includes coronavirus)
3. Drought
4. Earthquake
5. Flood
6. Geologic (landslides, land subsidence, sinkholes)
7. Hurricane and Tropical Storm
8. Infestation and Invasive Species
9. Nor'Easter
10. Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)
11. Severe Winter Weather (blizzards, snow storms, and ice storms)
12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Other (describe at end of survey) ▼

Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

strong understanding of flood prone areas and impacts of flooding-also related to dam failure.

Weaknesses

limited notification protocols? How to announce the potential for a dam failure/flooding

Obstacles

funding for mitigation efforts

Opportunities

opportunities for multi-source funding through grants etc

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

strong medical infrastructure

Weaknesses

limited capacity

Obstacles

limited medical capacity and facilities to handle large numbers

Opportunities

potential for collaboration with other hospitals and service providers

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

available water for emergency use/irrigation

Weaknesses

limited infrastructure for handling water/irrigation

Obstacles

funding for equipment.

Opportunities

potential to coordinate efforts throughout the county

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

little likelihood of event. strong law enforcement/ EMT presence

Weaknesses

unprepared for that level catastrophe is severe event occurs

Obstacles

funding limitations

Opportunities

limited partnerships to coordinate. potential for citizen notification

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

good understanding of potential

Weaknesses

limited notification capabilities

Obstacles

coordination of efforts may be difficult between agencies and law enforcement

Opportunities

coordination of efforts possible, citizen notification efforts

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

good infrastructure road dept etc

Weaknesses

Obstacles

Opportunities

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

access to experts in mitigation

Weaknesses

equipment limitations for severe events; notification system limitations

Obstacles

poor internet/cell access in some areas of county limits notification

Opportunities

improved notification system

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

excellent tracking and forecasting abilities

Weaknesses

limited internet/cellular services in some areas of county

Obstacles

improving notification system crucial for maximum effectiveness

Opportunities

notification system, improve evacuation planning

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

good relationship and access to Rutgers Extension and other agencies for information and tracking pests

Weaknesses

limited infrastructure for control

Obstacles

difficult to control introductions of pests via transportation and visitors from out of county/state

Opportunities

educational programs, county wide notification system

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

forecasting and tracking of storms, excellent plowing and road management

Weaknesses

limited access to rural areas, poor communication via internet/cellular

Obstacles

infrastructure costs for updating internet and cellular service

Opportunities

improve notification system

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Opportunities

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Opportunities

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Opportunities

Contact Information

Name: *

stephen komar

Department/Agency: *

Rutgers

Jurisdiction (if applicable):

Email: *

komar@njaes.rutgers.edu

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Sussex County Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

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11. Severe Winter Weather (blizzards, snow storms, and ice storms)
12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Sussex County



Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Evacuation routes and emergency notification system

Weaknesses

Availability of personnel

Obstacles

Availability of personnel

Opportunities

Increase the number of volunteers to assist during a catastrophic event

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Working relationship with County DOH

Weaknesses

NJDOH

Obstacles

Availability of PPE and information gathering from the State/State DOH

Opportunities

Education, Flu/Vaccination Clinics, community outreach

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

N/A

Weaknesses

N/A

Obstacles

We have not had a countywide drought

Opportunities

N/A

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

N/A

Weaknesses

N/A

Obstacles

Any earthquakes have been minor with no response necessary

Opportunities

N/A

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Evacuation procedures

Weaknesses

Procedures are not regularly reviewed

Obstacles

Jurisdictional boundaries

Opportunities

increase relationship with at risk jurisdictions

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Ability to respond in a quick manner

Weaknesses

Number of occurrences

Obstacles

Roadway diversion

Opportunities

Newer equipment to utilize during time of response

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Trained HAZMAT Team

Weaknesses

Response time and age of equipment

Obstacles

Maintaining trained HAZMAT members

Opportunities

Increased HAZMAT members

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Proper training and response

Weaknesses

Utility companies

Obstacles

Utility companies, road closures, manpower

Opportunities

Notification system to first responders on hazards during a response

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

N/A

Weaknesses

N/A

Obstacles

N/A

Opportunities

N/A

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Equipment

Weaknesses

Response notification

Obstacles

Information sharing

Opportunities

Increase ways to share information

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Notifications

Weaknesses

Number of shelters

Obstacles

Finding a place to utilize as a shelter

Opportunities

Community outreach on sheltering in place and safety

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Same as Nor'Easter

Weaknesses

SAA

Obstacles

SAA

Opportunities

SAA

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Response from NJ Forestry Service

Weaknesses

Information Sharing

Obstacles

More rural land vs developed

Opportunities

More prescribed burns to clear out underbrush

Contact Information

Name: *

Jennifer Van Der Wende

Department/Agency: *

SCSO/OEM

Jurisdiction (if applicable):

Sussex County

Email: *

jenvanderwende@sussexcountysheriff.com

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Sussex County Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

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8. Infestation and Invasive Species
9. Nor'Easter
10. Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)
11. Severe Winter Weather (blizzards, snow storms, and ice storms)
12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Township of Walpack ▼

Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength.

Weaknesses

Communications and coordination with both the SCOEM and the NPS can always be improved.

Obstacles

Walpack does not have a Department of Public Works (DPW) which could be either proactively employed to address mitigation strategies in anticipation of a specific hazard scenario; or reactively deployed to deal with immediate impacts of a specific hazard scenario. Financial limitations preclude the possibility of establishing a municipal DPW. The NPS is responsible for all public roads within the Township of Walpack, and so for all maintenance, repairs, clearing, plowing, storm drainage, etc.

Opportunities

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength, as are established agreements with both Blue Ridge Rescue Squad and the Blairstown Ambulance Corps.

Weaknesses

Communications and coordination can always be improved.

Obstacles

Opportunities

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength, as are those of the Sandyston Township Volunteer Fire Department, assuming the potential for wildfires as a consequent hazard of drought.

Weaknesses

Communications and coordination can always be improved.

Obstacles

Walpack does not have a local Fire Department due to financial limitations. Cooperation and coordination with a neighboring volunteer fire department provides necessary services in a much more cost effective manner, but, does also necessarily introduce a distance/response time factor into dealing with fire hazard scenarios.

Opportunities

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength, as are established agreements with both Blue Ridge Rescue Squad and the Blirstown Ambulance Corps to address EMS scenarios, and Sandyston Township Volunteer Fire Department to address residential/business fire scenarios.

Weaknesses

Communications and coordination can always be improved.

Obstacles

Walpack does not have a Department of Public Works (DPW) which could be either proactively employed to address mitigation strategies in anticipation of a specific hazard scenario; or reactively deployed to deal with immediate impacts of a specific hazard scenario. Financial limitations preclude the possibility of establishing a municipal DPW. The NPS is responsible for all public roads within the Township of Walpack, and so for all maintenance, repairs, clearing, plowing, storm drainage, etc. Similar limitations apply to EMS and Fire services.

Opportunities

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength.

Weaknesses

Communications and coordination with both the SCOEM and the NPS can always be improved.

Obstacles

Walpack does not have a Department of Public Works (DPW) which could be either proactively employed to address mitigation strategies in anticipation of a specific hazard scenario; or reactively deployed to deal with immediate impacts of a specific hazard scenario. Financial limitations preclude the possibility of establishing a municipal DPW. The NPS is responsible for all public roads within the Township of Walpack, and so for all maintenance, repairs, clearing, plowing, storm drainage, etc.

Opportunities

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength.

Weaknesses

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Obstacles

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Opportunities

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength.

Weaknesses

Communications and coordination with both the SCOEM and the NPS can always be improved.

Obstacles

Walpack does not have a Department of Public Works (DPW) which could be either proactively employed to address mitigation strategies in anticipation of a specific hazard scenario; or reactively deployed to deal with immediate impacts of a specific hazard scenario. Financial limitations preclude the possibility of establishing a municipal DPW. The NPS is responsible for all public roads within the Township of Walpack, and so for all regulation of transportation of hazardous materials.

Opportunities

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength. A history of good interaction with JCP&L Area Managers is also a strength.

Weaknesses

Communications and coordination with both the SCOEM and the NPS can always be improved.

Obstacles

Walpack does not have a Department of Public Works (DPW) which could be either proactively employed to address mitigation strategies in anticipation of a specific hazard scenario; or reactively deployed to deal with immediate impacts of a specific hazard scenario. Financial limitations preclude the possibility of establishing a municipal DPW. The NPS is responsible for all public roads within the Township of Walpack, and so for all maintenance, repairs, clearing, plowing, storm drainage, etc.

Opportunities

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength.

Weaknesses

Communications and coordination with both the SCOEM and the NPS can always be improved.

Obstacles

Financial limitations preclude the possibility of Walpack Township developing or employing services to address any type of infestation or invasive species scenarios.

Opportunities

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength. A history of good interaction with JCP&L Area Managers is also a strength.

Weaknesses

Communications and coordination can always be improved.

Obstacles

Walpack does not have a Department of Public Works (DPW) which could be either proactively employed to address mitigation strategies in anticipation of a specific hazard scenario; or reactively deployed to deal with immediate impacts of a specific hazard scenario. Financial limitations preclude the possibility of establishing a municipal DPW. The NPS is responsible for all public roads within the Township of Walpack, and so for all maintenance, repairs, clearing, plowing, storm drainage, etc.

Opportunities

Severe weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength. A history of good interaction with JCP&L Area Managers is also a strength.

Weaknesses

Communications and coordination can always be improved.

Obstacles

Walpack does not have a Department of Public Works (DPW) which could be either proactively employed to address mitigation strategies in anticipation of a specific hazard scenario; or reactively deployed to deal with immediate impacts of a specific hazard scenario. Financial limitations preclude the possibility of establishing a municipal DPW. The NPS is responsible for all public roads within the Township of Walpack, and so for all maintenance, repairs, clearing, plowing, storm drainage, etc.

Opportunities

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

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Weaknesses

Communications and coordination can always be improved.

Obstacles

Walpack does not have a Department of Public Works (DPW) which could be either proactively employed to address mitigation strategies in anticipation of a specific hazard scenario; or reactively deployed to deal with immediate impacts of a specific hazard scenario. Financial limitations preclude the possibility of establishing a municipal DPW. The NPS is responsible for all public roads within the Township of Walpack, and so for all maintenance, repairs, clearing, plowing, storm drainage, etc.

Opportunities

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The availability of assets of the Sussex County OEM (SCOEM), and the willingness of the SCOEM to work with and support Walpack Township is our greatest strength. Similarly, the availability of assets of the National Park Service (NPS) are also a significant strength, as are those of the Sandyston Township Volunteer Fire Department.

Weaknesses

Communications and coordination can always be improved.

Obstacles

Walpack does not have a local Fire Department due to financial limitations. Cooperation and coordination with a neighboring volunteer fire department provides necessary services in a much more cost effective manner, but, does also necessarily introduce a distance/response time factor into dealing with fire hazard scenarios.

Opportunities

Contact Information

Name: *

Victor J. Maglio

Department/Agency: *

Mayor, Township Committee Member

Jurisdiction (if applicable):

Walpack Township

Email: *

walpackmayor@gmail.com

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Sussex County Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

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8. Infestation and Invasive Species
9. Nor'Easter
10. Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)
11. Severe Winter Weather (blizzards, snow storms, and ice storms)
12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Township of Wantage



Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Lower population in Dam area Few Dams

Weaknesses

No notification of Dam status

Obstacles

Financial costs involved as related to the population at risk

Opportunities

Dam inspection by ordinance

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Lower population

Weaknesses

medical infrastructure

Obstacles

Financial

Opportunities

Unknown

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Strong aquifer

Weaknesses

many wells

Obstacles

Opportunities

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Very low history in area

Weaknesses

Obstacles

Opportunities

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

mountainous terrain open space

Weaknesses

Obstacles

Opportunities

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

no past history just local from construction

Weaknesses

No past history unknown

Obstacles

Opportunities

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

lower population around Highways

Weaknesses

Lack of quick response

Obstacles

Financial costs

Opportunities

Create quick response team from county

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

far enough from typical paths

Weaknesses

Power company infrastructure

Obstacles

Costs involved to upgrade

Opportunities

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

identification awareness

Weaknesses

large wooded areas and farms

Obstacles

size of area

Opportunities

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

local response capabilities limited, Electrical power loss

Obstacles

financial

Opportunities

Grow with time

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Rural population

Weaknesses

power company

Obstacles

infrastructure and response

Opportunities

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

rural

Weaknesses

local response capacities, Electrical power loss

Obstacles

financial

Opportunities

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Local NJFS

Weaknesses

Rural areas

Obstacles

capacity of local firstresponders

Opportunities

Contact Information

Name: *

Joseph Konopinski

Department/Agency: *

Wantage OEM

Jurisdiction (if applicable):

Wantage Twp

Email: *

jkonopin@ptd.net

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Sussex County Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

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- Opportunities – used to develop mitigation strategies.

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5. Flood
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8. Infestation and Invasive Species
9. Nor'Easter
10. Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)
11. Severe Winter Weather (blizzards, snow storms, and ice storms)
12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Township of Sparta



Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

We have a strong, experienced team to assess, plan and address hazards should they occur in the township.

Weaknesses

We have quite a bit of vulnerable locations and areas spread out over a large township to be concerned about.

Obstacles

identifying and prioritizing the critical locations

Opportunities

We will take advantage of any opportunities to best address these vulnerable locations

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Again we have a knowledgeable and experienced team to address this scenario

Weaknesses

Should supplies dwindle, could be difficult finding PPE again as we initially experienced.

Obstacles

Should supplies dwindle, could be difficult finding PPE again as we initially experienced.

Opportunities

Coordination between different entities is key to best address this issue.

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

We a variety of areas to pull from if case of shortages, our Water department head and his team is very responsive should we need to instill restricitons.

Weaknesses

Can't predict mother nature

Obstacles

This would have to be further answered by Water Department and Township Engineer

Opportunities

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Team would have to address as similar to any natural disaster and rely on resources.

Weaknesses

We would need to use multiple areas for assets and equipment for mutual aid

Obstacles

We would need to use multiple areas for assets and equipment for mutual aid

Opportunities

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

We have mitigation plans in place and have identified most areas within the township.

Weaknesses

Topography changes from time to time and other areas may need to be added.

Obstacles

We have quite a bit of areas in our township to be concerned about.

Opportunities

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

We have identified some of these areas that we have experienced these incidents in the past and have addressed them. We have experience with these problems.

Weaknesses

This also changes depending on climate and sometimes topography.

Obstacles

This also changes depending on climate and sometimes topography.

Opportunities

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

This is reviewed and tested on annually and we have specific plans on who to contact to assist with such an incident.

Weaknesses

We may be more vulnerable to such a incident with railroad traversing through township.

Obstacles

Mentioned above

Opportunities

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Unfortunately we have have a good amount of experience with these storms

Weaknesses

We seem to get hit hard with the terrain, trees, and power configuration within town.

Obstacles

We seem to get hit hard with the terrain, trees, and power configuration within town.

Opportunities

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

We have some experience with this.

Weaknesses

I would have to defer to someone with more knowledge on this topic.

Obstacles

Opportunities

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Same answers as hurricane or tropical storm.

Weaknesses

Obstacles

Opportunities

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

We have similar plans with these incidents as we do with hurricanes and tropical storms. There are separate plans for extreme temperatures activating cooling or warming stations.

Weaknesses

Obstacles

Opportunities

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Another weather event that we have quite a bit of experience with and fortunately equipment to handle appropriately.

Weaknesses

Obstacles

Opportunities

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

We have had some experience with and have utilized the resources to assist us with this issue.

Weaknesses

Difficult terrain to access bad locations.

Obstacles

Difficult terrain to access bad locations.

Opportunities

Contact Information

Name: *

Neil J Spidaletto

Department/Agency: *

Sparta Police Department

Jurisdiction (if applicable):

Sparta Township

Email: *

nspidaletto@spartapd.org

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12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Township of Stillwater



Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Our strengths are our DPW and our Volunteer Fire and Rescue squads that are utilized to a large extent during our highest hazard situations which are storms with high winds and/ or large amounts of precipitation, in particular snow. JCPL has been working to trim back trees and has done a great job in a variety of areas in Stillwater which helps us during severe storms.

Weaknesses

Our weaknesses is we have silt build up in some of our local streams but most of these locations are not high density residential areas. Our power grid is aged, but we have no control over this as it is part of the JCPL or Sussex Rural Electric.

Obstacles

Funding and equipment for catch basins is minimal. This is in both placement of new catch basins in areas of severe runoff during strong rain events. We do not have many locations but we do have some. Therefore overall funding is minimal for placement and or replacement of these catch basins. Also due to the depth of which some of these catch basins must be set requires we hire outside of our DPW due to trench depth and not having the proper OSHA safety requirements within our own.

Opportunities

Our opportunities are minimal as an outlying municipal. We participate in a few shared services for things like road sweeping with another local municipality.

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Our strength is most of our residents live in separate homes, so spread of disease among humans is lower than a high density area.

Weaknesses

Our only weakness would be that people can tend to let their guards down. This is relative to COVID. In terms of diseases that are carried by insects we are susceptible to this due to our forested canopy, wildlife, and grass/croplands being potential growth areas for insect and tick born disease.

Obstacles

Funding is always an obstacle in a municipality with lower tax base and minimal business for higher taxes.

Opportunities

Not sure what opportunity we have in our area for this hazard.

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

As we are mostly well water in our area, not sure if we have any strengths to mitigate a drought condition. Our only positive would be that our private wells are all at different depths so hopefully if a house loses water due to a drought there is a good chance a neighbor will still have water.

Weaknesses

Our weakness is that we do not have a public source of water.. but we have neighbors as listed above.

Obstacles

We do not have high enough densities of populations were we would add a public water source

Opportunities

Perhaps in some of our lake communities we could investigate adding public water towers BUT our lake communities are private communities and it would have to be governed by their own associations.

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Not applicable as we are not susceptible to earthquakes of large enough magnitude.

Weaknesses

Not applicable

Obstacles

Not applicable

Opportunities

not applicable

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Due to our higher elevation, our flooding is in minimal areas.

Weaknesses

Most of our 'flooding' is due to not having catch basins in proper placement for some of the areas prone to flooding from heavy rains.

Obstacles

Funding

Opportunities

Could perhaps due some shared services with this with neighboring municipalities.

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Again, the lower density population and building codes have addressed possible sinkhole areas by mapping our calcium carbonate geological areas.

Weaknesses

The mapping of all high carbonate areas is older.

Obstacles

Funding

Opportunities

Our ERI will be due for update as well as our Master plan so we can perhaps address mapping during these updates.

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Due to our road structure we do not get too many tankers with hazardous material driving through our roads

Weaknesses

Our main hazardous material hazard is due to UST and/or deliveries of fuels on our back roads with many twists and turns.

Obstacles

Cost of mitigating any sort of UST issues is a main obstacle to trying to remove. This is on all levels of housing and business.

Opportunities

As properties sell or transfer ownership this is a good chance to check for UST's. Again.. not the normal hazardous material but is for our area.

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

We are practice in tree debris clearing and removal.

Weaknesses

We are limited by how much we can clear by ourselves in a storm that takes down trees and powerlines.

Obstacles

Since we are end of many power grids we will never see a fast response to clear our roads if trees have taken down power lines.

Opportunities

Perhaps having some of our lake communities investigate underground utilities as well as new construction homes. However, we have minimal new construction.

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

We have many local people who are front runners in helping to spot and control infestation at the beginning, not at the end when the infestation has taken over.

Weaknesses

Our tree canopy is huge. so spotting all infestations is by trusting our residents. Our state and federal lands are often the beginning of infestations.

Obstacles

Since the State and Federal government own some of the properties that are home to infestations we are at their mercy. With their cutbacks in place they are not as strong in workers who come to inspect these areas. We have no control of this.

Opportunities

Utilize our Boards and commissions as best we can. For example our Environmental Committee is very active in areas such as this.

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

We have a strong DPW and Fire and EMS squads to assist in clearing our streets and roads and helping residents be able to get out of their homes if need be.

Weaknesses

We have 42 miles of roads and they are all tree lined high canopy areas.

Obstacles

Our main obstacle is if we lose trees that take down power lines and other utilities lines we are at the mercy of the company overseeing the lines and poles. As noted in a prior SWOO we are end of the line for power so we are last to have tree crews in major storms. We are also low density and companies tend to restore areas with higher density first.

Opportunities

Work as much as possible with local utilities and BPU.

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures,

and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

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Opportunities

Continue to work with JCPL and with Altice taking over Service Electric Cable getting them to work on trimming those trees more aggressively.

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Again, our DPW is an amazing team of 6 members who do an outstanding job

Weaknesses

We only have 6 members and when storms are over several days fatigue sets in and breaks must be taken.

Obstacles

Our main obstacle is if we lose trees that take down power lines and other utilities lines we are at the mercy of the company overseeing the lines and poles. As noted in a prior SWOO we are end of the line for power so we are last to have tree crews in major storms. We are also low density and companies tend to restore areas with higher density first.

Opportunities

Perhaps having a budget for sub DPW workers would be a good idea if storms continue to become more severe due to Climate change.

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Really not applicable or high risk as of now.

Weaknesses

NA

Obstacles

NA

Opportunities

NA

Contact Information

Name: *

Lisa Chammings

Department/Agency: *

Mayor/OEM

Jurisdiction (if applicable):

Stillwater Township

Email: *

lchammings@ptd.net

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12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Borough of Sussex

Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

active engineering plan, actively applying for grants to update any deficiencies

Weaknesses

funding

Obstacles

Opportunities

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

since the covid disaster, FD and EMS are being proactive in securing necessary PPE and building stock
Active mutual aid with other towns

Weaknesses

manpower

Obstacles

Borough is less than a square mile so finding necessary people willing to volunteer is tough

Opportunities

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

aging infrastructure to keep up with demand

Obstacles

funding

Opportunities

working on grants to update infrastructure

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

very low hazard

Weaknesses

possibility of separating the town if 2 major bridges were damaged

Obstacles

funding

Opportunities

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

active mitigation of debris removal and lowering the lake in anticipation of serious storms

Weaknesses

major electrical substation in a flood prone area

Obstacles

funding

Opportunities

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

very low risk

Weaknesses

lack of manpower to handle a major hazard

Obstacles

funding

Opportunities

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

proactive FD/EMS in training

Weaknesses

major highway that traverses through the center of the town

Obstacles

funding

Opportunities

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

actively working on updating aging infrastructure

Weaknesses

aging infrastructure

Obstacles

funding

Opportunities

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

lake that is partially in another town and runoff from various sources

Obstacles

funding

Opportunities

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

large FD manpower to pull from to assist DPW

Weaknesses

limited DPW due to cost factors, aging equipment

Obstacles

funding

Opportunities

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

large FD manpower to assist

Weaknesses

limited DPW manpower due to cost factors, aging equipment

Obstacles

funding

Opportunities

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

limited manpower due to cost factors, aging equipment

Obstacles

funding

Opportunities

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

low risk for this hazard, large FD to pull from

Weaknesses

Obstacles

Opportunities

more active prevention

Contact Information

Name: *

Floyd Southard

Department/Agency: *

OEM

Jurisdiction (if applicable):

Borough of Sussex

Email: *

oem@sussexboro.com

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12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Township of Hardyston ▼

Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Fire, police, OEM, DPW and notification Response capabilities

Weaknesses

Privately owned dams

Obstacles

none

Opportunities

improved Communications with dam owners associations

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Opportunities

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Opportunities

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Opportunities

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Opportunities

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

short term police, fire, DPW and OEM response

Weaknesses

Surveying area for potentials earth slides. example RT 23 on Beaver Mountain had a massive slide in 1950's and closed RT 23 and railroad for weeks. The slide results are still visible on the mountain

Obstacles

Opportunities

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Opportunities

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Fire, police, DPW, OEM capabilities

Weaknesses

Power generation for DPW fuel site serving multiple towns under Joint Services , Tree maintenance along power lines and major roads

Obstacles

funding

Opportunities

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Opportunities

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Fire, police, DPW, OEM capabilities

Weaknesses

JCPL response holding up debris removal. Power generation for DPW fuel site serving multiple towns under Joint Services contracts. Roof loading on older buildings

Obstacles

funds

Opportunities

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Fire, police, DPW, OEM capabilities

Weaknesses

JCPL response causing delays in debris removal. Power Companies response time holds up debris removal. Power generation for DPW fuel site serving multiple towns under Joint Services contracts

Obstacles

JCPL and funding

Opportunities

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

same as Nor-Easter and severe weather

Weaknesses

Obstacles

Opportunities

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

NJ State Forrest fire units, our FD

Weaknesses

many homes backup to large State woodlands

Obstacles

funding

Opportunities

awareness programs

Contact Information

Name: *

william hickerson

Department/Agency: *

OEM

Jurisdiction (if applicable):

Hardyston

Email: *

wmhickerson@gmail.com

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Sussex County Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

The purpose of the Strengths, Weaknesses, Obstacles, and Opportunities (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; what we can capitalize on
- Weaknesses – what could we do better; what we need to strengthen
- Obstacles – things that stand in the way and either prevent you from doing something or something that needs to be overcome (e.g. regulatory, geographical, environmental, financial)
- Opportunities – used to develop mitigation strategies.

For the current plan, a total of 13 hazards of concern were identified as significant hazards affecting the entire planning area, to be addressed at the county level in this plan:

1. Dam Failure
2. Disease Outbreak (includes coronavirus)
3. Drought
4. Earthquake
5. Flood
6. Geologic (landslides, land subsidence, sinkholes)
7. Hurricane and Tropical Storm
8. Infestation and Invasive Species
9. Nor'Easter
10. Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)
11. Severe Winter Weather (blizzards, snow storms, and ice storms)
12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Township of Lafayette



Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

there are limited number of dams remaining in Lafayette and they have been inspected by NJDEP and County representatives. also evaluated downstream impacts

Weaknesses

Rural municipality with shared services and mutual aid agreements therefore relay on external subject matter experts for inspections and response

Obstacles

budgetary and financial constraints for internal expertise and/or equipment. initial municipal response is via volunteer emergency services which continues to be limited by the number of volunteers available during daytime response hours

Opportunities

continue strategic relationships with county, state, and local subject matter experts, shared services, and mutual aid agencies to Pre-Plan response and proactively inspect dams

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Health Department services are provided through Sussex County which has the resources and staff experience in this area. The municipality is not financially capable of maintaining in-house subject matter experts or the resources to adequately plan for or respond to an outbreak

Weaknesses

should an outbreak impact numerous Sussex county municipalities which contract through the SC Health Dept, then county resource can be spread thin to suitable serve the needs of all municipalities. depending on how wide spread the outbreak, municipal and county facilities and services can be overwhelmed necessitating options or alternatives to prioritize and serve the needed response

Obstacles

Financial and budgetary constraints, limited number of municipal owned facilities to support response, and reliance on availability of municipal volunteer first responders who may have work related obligations outside the municipality

Opportunities

Continue with county wide preparation and strategic agreements for response. maintain relationships and updated contact lists with local, county, and state resources

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

majority of municipal residents and businesses are served by wells from aquifer for potable and drinking water.

Weaknesses

a sustained drought could impact the underground aquifer resulting in residents not having water. Less than 5% of residents are served by municipal water system, therefore no options to swap water supply sources to alternate, and for fire response water is relied by tanker and strategically standpipes in ponds. A drought impacting the water level in ponds can result in longer time for water supply in the event of a fire

Obstacles

municipal infrastructure, budgetary constraints to create / expand municipal water supply,

Opportunities

continue to assess grants and infrastructure for creating a municipal water utility to serve more residents and businesses, maintain mutual aid agreements for water response

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

limited number of structures within municipality that are at risk to this hazard

Weaknesses

limited internal resources and equipment for this hazard

Obstacles

Budget constraints and personnel resources to train and staff for this hazard

Opportunities

maintain mutual aid agreements and train with local and regional resources

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Experienced first responders and DPW staff and suitable equipment for typical flood events. maintaining strategic relationships with mutual aid departments, shared services, and county agencies for typical response

Weaknesses

multiple flood locations affecting major roadways or residents will overwhelm municipal resources.

Obstacles

budgetary constraints, volunteers for emergency services may be limited based on priority of their work commitments

Opportunities

continue training and ,maintaining mutual aid agreements with agencies

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

experienced DPW and emergency responders and equipment for typical event. mutual aid agreements in place for support resources as needed. limited number of areas in the municipality with high hazard impact

Weaknesses

limited resources and equipment if multiple locations

Obstacles

budgetary constraints and limited resources if multiple or wide spread hazard events

Opportunities

continue mutual aid agreements and training

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

well trained DPW and First Responders for this type of hazard, equipped with typical vehicles and materials for expected level of response

Weaknesses

staffed and trained for expected level of response but internal resources quickly overwhelmed by large scale event or multiple events. Reliance on subject matter expertise of county and external agencies

Obstacles

budgetary constraints for additional specialty response equipment or paid personnel.

Opportunities

Plan for initial response and maintain contact and training with mutual aid and specialty response agencies

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

well trained municipal staff for this type of hazard, with equipment procured and tested periodically for types of events

Weaknesses

majority are volunteers which may have work commitments and therefore limited personnel available for sustaining a response of multiple days

Obstacles

budgetary constraints and sustaining multiple day response

Opportunities

continue to identify grants for procurement of specialty equipment to assist responders and staff

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

cooperation with county and state subject matter experts in proactive controls which municipal DPW and residents can implement

Weaknesses

municipality is heavily wooded throughout the 18.9 acres

Obstacles

budgetary constraints for internal municipal resources and equipment

Opportunities

training and awareness of public and preparedness efforts

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

well trained and experienced DPW and first responders, with suitable equipment for typical response

Weaknesses

internal resources will be overwhelmed by multiple impacted locations within the municipality or sustaining a multi day response

Obstacles

budgetary constraints for staffing and specialty equipment

Opportunities

maintain preparedness with mutual aid and county agencies,

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

well trained staff for response and equipment for typical event

Weaknesses

resources can be overwhelmed by multiple locations impacted or sustaining multi day event response, limited specialty equipment to respond to multiple locations

Obstacles

large area of 18.9 square miles to respond and budgetary constraints with paid staff or obtaining specialty equipment

Opportunities

grant opportunities for replacement of worn out or dated equipment and obtaining specialty equipment

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

well trained DPW staff and emergency responders for typical event. suitable equipment for typical event

Weaknesses

internal resources overwhelmed by maintaining multi day response. the same resources which maintain municipal facilities also have responsibilities for other critical services

Obstacles

limited staff for sustained response, limited equipment and if damaged or taken out of service then limited response available

Opportunities

grants for updating equipment

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

NJ Forest Fire are subject matter experts for this and municipality emergency services maintains preparedness with that agency

Weaknesses

limited internal resources and equipment

Obstacles

budgets and staffing

Opportunities

maintain mutual aid and training

Contact Information

Name: *

Richard Hughes

Department/Agency: *

Office of Emergency Management

Jurisdiction (if applicable):

Township of Lafayette

Email: *

hughesr22@gmail.com

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Sussex County Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

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11. Severe Winter Weather (blizzards, snow storms, and ice storms)
12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Township of Vernon



Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Planning and reporting of existing dams

Weaknesses

Funding to support any long term mitigation response

Obstacles

Most dams are privately owned through HOAs

Opportunities

Work with lake communities to stay abreast of issues

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County health Dept gives Vernon a strong response

Weaknesses

Resort town Large percentage of visitors

Obstacles

Ability to control outbreak

Opportunities

To develop a plan to control outbreak

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Multiple Water supplies

Weaknesses

Remote conditions privately owned

Obstacles

No testing of water supplies being done

Opportunities

Work with water supply to learn and develop new response

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Remote location Little to no known fault lines in jurisdiction

Weaknesses

Remote mountainess location

Obstacles

limited access in/out

Opportunities

develop a plan to address

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Minimal flood area

Weaknesses

Small streams remote areas unreachable

Obstacles

Locations and limited access

Opportunities

Develop an ongoing HMP

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Terrain mountains

Weaknesses

Limited access to area

Obstacles

Location

Opportunities

Develop HMP

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Limited amount of materials

Weaknesses

Limited access in/out of town

Obstacles

Known storage of materials and reporting

Opportunities

Improve reporting of stored materials and develop HMP

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Initial response to hazard
.....

Weaknesses

Limited access
.....

Obstacles

Communication to visitors
.....

Opportunities

Continue to develop HMP
.....

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Location
.....

Weaknesses

Communication to visitors

Obstacles

Widespread territory 68 square miles

Opportunities

Develop plan now prior to event

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Immediate response to event from Emergency services

Weaknesses

Remote Location and access

Obstacles

Limited roads and terrain

Opportunities

Improve on existing response plan

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Sheltered location

Weaknesses

Remote location

Obstacles

Communication to visitors

Opportunities

Improve communication to guests in event of storm

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Strong DPW

Weaknesses

Terrain

Obstacles

Limited access

Opportunities

Improve on response

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Local FD and availability of NJFF resources

Weaknesses

Terrain Heavily wooded areas

Obstacles

Remote access

Opportunities

Work with NJFF thru grants to improve growth

Contact Information

Name: *

Ken Clark

Department/Agency: *

Vernon Twp OEM

Jurisdiction (if applicable):

Vernon

Email: *

kenclark213@gmail.com

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Sussex County Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

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12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Borough of Branchville



Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Notification ability

Weaknesses

Ability to fully handle issue

Obstacles

Manpower/Costs

Opportunities

reach for more expert help

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Working with County health Dept

Weaknesses

Limited local resources

Obstacles

Possible community cooperation

Opportunities

Continue to participate in County exercises

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Own water supply

Weaknesses

NA

Obstacles

NA

Opportunities

NA

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County support

Weaknesses

Lack of knowledge about

Obstacles

Managing magnitude of damage

Opportunities

Continue to stay updated

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Have been thru many instances in past more aware of problem areas

Weaknesses

Availabel manpower at times

Obstacles

Conditions in brooks

Opportunities

Funding to clear debris from brooks

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

NA

Weaknesses

NA

Obstacles

NA

Opportunities

NA

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County Hazmat Team/FD

Weaknesses

Limited FD manpower at times

Obstacles

Response times

Opportunities

Work on helping FD

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Notifications from County/State

Weaknesses

Not always full availability to react

Obstacles

size of storm

Opportunities

continue working with officials

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Have a shade tree commission

Weaknesses

small committee

Obstacles

funding

Opportunities

work on better funding for tree removals

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County/Local DPW

Weaknesses

3 person DPW

Obstacles

Size of storm

Opportunities

Having extra help available

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weather reports

Weaknesses

Dependence on local power crews

Obstacles

Availability of assistance need

Opportunities

Continue working with needed agencies

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County/Local DPW

Weaknesses

Size of storm

Obstacles

Power outages

Opportunities

Continue working with agencies

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Forest Fire/FD

Weaknesses

Manpower for FD

Obstacles

Manpower for FD

Opportunities

Continue good working with Forest Fire

Contact Information

Name: *

Jeff Lewis

Department/Agency: *

Coordinator OEM

Jurisdiction (if applicable):

Branchville

Email: *

jlewis310@embarqmail.com

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Sussex County Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

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11. Severe Winter Weather (blizzards, snow storms, and ice storms)
12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Township of Frankford



Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Notification system

Weaknesses

Avalability

Obstacles

Resources avabile

Opportunities

work on resources

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County Health Dept

Weaknesses

Unknown

Obstacles

Public cooperation

Opportunities

Continue participating in County exercises

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Private wells

Weaknesses

Farmers lands

Obstacles

resources to help farmers

Opportunities

Continue look for resource help

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

NA

Weaknesses

NA

Obstacles

NA

Opportunities

NA

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Very few structures close to brooks

Weaknesses

NA

Obstacles

NA

Opportunities

Continued planning/zoning

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

NA

Weaknesses

NA

Obstacles

NA

Opportunities

NA

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County Hazmat/FD

Weaknesses

FD manpower at times

Obstacles

Response availbilty

Opportunities

Continue working on help for FD

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

State/County weather notifications

Weaknesses

ability to respond at times

Obstacles

size of storm

Opportunities

continue working with County

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Committee/DPW

Weaknesses

amount of trees

Obstacles

Funding for removal

Opportunities

Work on funding

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County/DPW

Weaknesses

Manpower

Obstacles

size of storm

Opportunities

Continue keeping agencies informed of weather

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

State/County weather updates

Weaknesses

Avalibility of agenices to respond

Obstacles

size of storm

Opportunities

continue to help for better response times

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County/DPW

Weaknesses

Manpower

Obstacles

Size of storm

Opportunities

Continue working with agencies

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Forest Fire/FD

Weaknesses

Manpower

Obstacles

Amount of wooded areas around structures

Opportunities

Work with agencies for best plans to be in place

Contact Information

Name: *

Jeff Lewis

Department/Agency: *

Coordinator OEM

Jurisdiction (if applicable):

Frankford TWp

Email: *

jlewis310@embarqmail.com

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2. Disease Outbreak (includes coronavirus)
3. Drought
4. Earthquake
5. Flood
6. Geologic (landslides, land subsidence, sinkholes)
7. Hurricane and Tropical Storm
8. Infestation and Invasive Species
9. Nor'Easter
10. Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)
11. Severe Winter Weather (blizzards, snow storms, and ice storms)
12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Township of Hampton ▼

Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The main (or major) dams in Hampton Township are all strong and have been repaired or replaced within the last 30 years. The minor dams are mainly privately-owned.

Weaknesses

The private dams are at risk of disrepair.

Obstacles

Funding is not easily available for private dams; the DEP permits are difficult and costly to obtain. The Township could be called upon to assist financially.

Opportunities

The owners of the dams are notified in advance of severe weather/water to open the flood gates to lower the lakes and control the flow of water.

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Hampton Township is rural; mostly single-family homes. Residents are able to self-isolate because there are few densely populated dwelling communities. The County and State Health Dept(s) issue directives for the Township to follow.

Weaknesses

Hampton Township does not have it's own health services to assist residents.

Obstacles

Costs associated with an outbreak would be detrimental to Hampton Township. The Township does not have enough resources or infrastructure.

Opportunities

The State and County can offer services and resources to assist the Township.

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Almost all of the residences in Hampton Township have their own wells.

Weaknesses

No way to enforce water restrictions on individual residences, except through social media.

Obstacles

Education and awareness.

Opportunities

Hampton Township plans on rebuilding its social media platforms for greater outreach.

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Minimal exposure to earthquake

Weaknesses

Preparedness

Obstacles

Inexperience and lack of internal resources

Opportunities

Education and awareness programs

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Hampton Township's DPW and Fire Dept are well-prepared and experienced.

Weaknesses

Small streams can be overburdened by debris and are very difficult to maintain. They can be in isolated areas that are difficult for the Township to reach.

Obstacles

Evacuation routes/plans.

Opportunities

Education and awareness programs about the importance of maintaining proper water flow.

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

DPW is experienced and has the ability to isolate the affected areas and has equipment to manage incidents

Weaknesses

Preparedness; inability to anticipate

Obstacles

Cost of geological studies in order to identify problem areas

Opportunities

Hampton Township can develop a list of areas to identify where the geological risk areas are to make the residents aware

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The County lead agency is prepared to guide Hampton Township.

Weaknesses

No longer informed of the materials that travel through the main corridors of Hampton Township

Obstacles

The Township is only able to handle small hazardous incidents on its own.

Opportunities

After each incident, the County and the Fire Dept gain valuable experience to be better prepared for future incidents.

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Hampton Township has experience and plans in place to follow during an event.

Weaknesses

Lack of manpower.

Obstacles

Costs associated with maintaining adequate personnel.

Opportunities

Awareness and education programs for the residents. Also, to see how Register Ready operates.

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The County and State are lead agencies and advise of potential infestation.

Weaknesses

Hampton Township has dense, old growth and underbrush. Also, agriculture could be seriously affected.

Obstacles

Costs associated with the removal of the affected or dead trees left in the aftermath.

Opportunities

The State provides education, assistance and funding for the identification and remediation.

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Hampton Township is well prepared. The DPW is experienced in road and debris clearing, snow removal and has a strong tree-trimming program.

Weaknesses

Manpower in the event of major, ongoing storms.

Obstacles

Education of the residents to follow advisories and storm preparedness.

Opportunities

To increase education programs and to identify our faults and weaknesses to improve preparedness.

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Hampton Township is well prepared. The DPW is experienced in road and debris clearing, snow removal and has a strong tree-trimming program.

Weaknesses

Manpower in the event of major, ongoing storms.

Obstacles

Education of the residents to follow advisories and storm preparedness.

Opportunities

To increase education programs and to identify our faults and weaknesses to improve preparedness.

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Hampton Township is well prepared. The DPW is experienced in road and debris clearing, snow removal and has a strong tree-trimming program in place.

Weaknesses

Manpower in the event of major, ongoing storms.

Obstacles

Education of the residents to follow advisories and storm preparedness.

Opportunities

To increase education programs and to identify our faults and weaknesses to improve preparedness.

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

The NJ Forest Fire Service is very strong and lends assistance to our local fire depts.

Weaknesses

Awareness of the residents to maintain their property and tree lines and to keep the growth and underbrush well managed.

Obstacles

Due to the past Gypsy Moth infestation, there is dense undergrowth; the costs associated with clearing this is prohibitive.

Opportunities

Education and awareness.

Contact Information

Name: *

Jessica Caruso

Department/Agency: *

Administration

Jurisdiction (if applicable):

Hampton Township

Email: *

administrator@hamptontwp-nj.org

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Sussex County Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

The purpose of the Strengths, Weaknesses, Obstacles, and Opportunities (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; what we can capitalize on
- Weaknesses – what could we do better; what we need to strengthen
- Obstacles – things that stand in the way and either prevent you from doing something or something that needs to be overcome (e.g. regulatory, geographical, environmental, financial)
- Opportunities – used to develop mitigation strategies.

For the current plan, a total of 13 hazards of concern were identified as significant hazards affecting the entire planning area, to be addressed at the county level in this plan:

1. Dam Failure
2. Disease Outbreak (includes coronavirus)
3. Drought
4. Earthquake
5. Flood
6. Geologic (landslides, land subsidence, sinkholes)
7. Hurricane and Tropical Storm
8. Infestation and Invasive Species
9. Nor'Easter
10. Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)
11. Severe Winter Weather (blizzards, snow storms, and ice storms)
12. Wildfire
13. Hazardous Materials (fixed site and in-transit)

Please use this survey to identify Strengths, Weaknesses, Obstacles, and Opportunities for each hazard.

Which municipality/jurisdiction do you represent?

Township of Montague ▼

Dam Failure

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Funding for updating

Weaknesses

Dam Inspections

Obstacles

Opportunities

Disease Outbreak

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County and State Support

Weaknesses

information

Obstacles

Funding

Opportunities

Drought

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Resources for a large scale Drought

Obstacles

most homes in the township are Well Feed

Opportunities

.....

Earthquake

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

.....

Weaknesses

.....

Obstacles

.....

Opportunities

.....

Flood

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

History and Data from past Floods County, State and surrounding municipals support

Weaknesses

Obstacles

Funding

Opportunities

Improve awareness

Geological Hazards (landslides, land subsidence, sinkholes)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Opportunities

Hazardous Materials

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County and State Support

Weaknesses

Obstacles

Opportunities

More Training for first responders

Hurricane and Tropical Storm

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Federal, State and county support having past storms to learn from and the resources were lacking

Weaknesses

need more equipment to assist with clean

Obstacles

Funding

Opportunities

purchase needed equipment

Infestation and Invasive Species

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

County/State Support

Weaknesses

Obstacles

Opportunities

Nor'Easter

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Funding

Opportunities

Purchase more snow removal equipment

Severe Weather (high winds, tornadoes, thunderstorms and lightning, extreme temperatures, and hail)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

county plans and mutual aid agreement

Weaknesses

Obstacles

Funding

Opportunities

use new shelter to better serve the township

Severe Winter Weather (blizzards, snow storms, and ice storms)

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Weaknesses

Obstacles

Opportunities

Wildfire

Please identify any Strengths, Weaknesses, Obstacles, or Opportunities regarding County and/or municipal capabilities to mitigating hazard impacts.

Strengths

Local Fire Department, State Forest Fire and mutual Aid

Weaknesses

Obstacles

Funding

Opportunities

Better Training for public

Contact Information

Name: *

Jesse Brace-Revak

Department/Agency: *

Township OEM

Jurisdiction (if applicable):

Montague Township

Email: *

jbrace81@yahoo.com

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B.5 ANNEX REVIEW

Workshops and additional meetings and data collection (via email and/or teleconference) to complete the jurisdictional annexes were held with the Steering and Planning Committees throughout the planning process. In preparation for the draft plan public review, each jurisdiction was asked to have their ‘mitigation team’ review their annex to ensure it was complete and accurate for posting to the Sussex County OEM’s mitigation website.

In summary, all participating communities and the County completed the planning partner expectations and annex-preparation process. Details regarding these meetings are described further in Sections 2 (Planning Process) and 6 (Mitigation Strategy). Completed jurisdictional annexes are presented in Section 9. Emails or annex signature pages documenting annex review prior to submission to FEMA are included in this appendix.

COUNTY OF SUSSEX

County Administrator

POFF II, GREGORY

Name

Signature



Date

5/19/21

Engineer

KOPPENAAL, WILLIAM

Name

Signature



Date

5-21-21

Fiscal/CFO

YETTER, ELKE

Name

Signature



Date

5/19/21

Facilities Management Director

NELSON, KEITH

Name / Title: DIRECTOR FACILITIES MGMT

Signature



Date

05-19-2021

Floodplain Administrator

N/A

Name / Title

Signature

Date

Emergency Manager

HAFFNER, ROBERT

Name / Title: DIRECTOR

Signature



Date

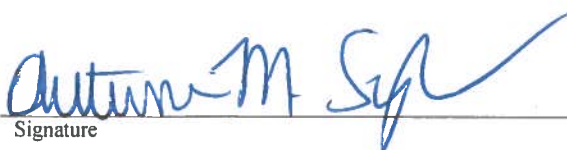
5/21/22

Land Use Planner

SYLVESTER, AUTUMN

Name / Title: PRINCIPAL PLANNER

Signature



Date

5/20/21

Public Works Director

HOUSE, SCOTT

Name / Title: DIRECTOR PUBLIC WORKS

Signature



Date

5-19-21

Police Department

N/A

Name / Title

Signature

Date

Fire Department

N/A

Name / Title

Signature

Date

Jurisdictional Annex Review Sign-Off Sheet

Borough of Andover
MUNICIPALITY NAME

Mayor/Administrator

John Morgan Name [Signature] Signature 6/8/21 Date

Engineer

Harold Pellow Name Harold E. Pellow Signature 6/8/21 Date

Fiscal/CFO

Michelle LaStarza Name [Signature] Signature 6/8/21 Date

Building Code Official

Bob Schmitt Name / Title [Signature] Signature 6/8/21 Date

Floodplain Administrator

Engineer Name / Title _____ Signature _____ Date _____

Emergency Manager

John Hoag Name / Title [Signature] Signature 6-8-21 Date

Land Use Planner

N/A Name / Title _____ Signature _____ Date _____

Public Works Director

N/A Name / Title _____ Signature _____ Date _____

Police Department

N/A (NJ State Police) Name / Title _____ Signature _____ Date _____

Fire Department

Jessica Casella Name / Title [Signature] Signature 6/8/21 Date

Jurisdictional Annex Review Sign-Off Sheet

Andover Township
MUNICIPALITY NAME

Mayor/Administrator

Patricia L. Bussow
Name

Patricia L. Bussow
Signature

5/19/21
Date

Engineer

Cory Stoner
Name

Cory Stoner
Signature

6/4/21
Date

Fiscal/CFO

Toni Grisaffi
Name

Toni Grisaffi
Signature

05/20/2021
Date

Building Code Official

Jim Miller
Name / Title

Jim Miller
Signature

6/4/2021
Date

Floodplain Administrator

Cory Stoner
Name / Title

Cory Stoner
Signature

6/4/21
Date

Emergency Manager

Eric Danielson / EMC
Name / Title

Eric Danielson
Signature

5/5/2021
Date

Land Use Planner

Jessica Caldwell
Name / Title

Jessica Caldwell
Signature

6/4/21
Date

Public Works Director

Darren Dickinson CPWM
Name / Title

Darren Dickinson
Signature

5/5/2021
Date

Police Department

Eric Danielson Chief of Police
Name / Title

Eric Danielson
Signature

5/5/2021
Date

Fire Department

Kyle T. Wilson
Name / Title

Kyle T. Wilson
Signature

6/4/2021
Date

Jurisdictional Annex Review Sign-Off Sheet

Branchville

MUNICIPALITY NAME

Mayor/Administrator

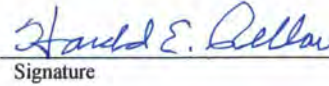
Anthony FRATO Sr
Name


Signature

5-5-2021
Date

Engineer

Harold E. Bellon
Name


Signature

5/13/21
Date

Fiscal/CFO

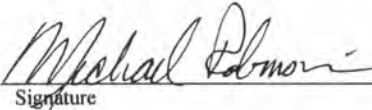
CHRISTINE ROLF
Name


Signature

5/05/2021
Date

Building Code Official

MIKE ROBINSON
CONSTRUCTION OFFICIAL
Name / Title


Signature

5-6-21
Date

Floodplain Administrator

Name / Title

Signature

Date

Emergency Manager

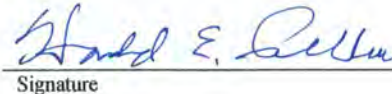
Jeff Lewis
Name / Title


Signature

5/13/2021
Date

Land Use Planner

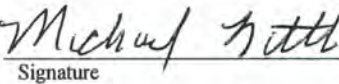
Harold E. Bellon
Name / Title


Signature

5/13/21
Date

Public Works Director

Michael Little
Name / Title


Signature

5-5-2021
Date

Police Department

Lt. J. Shelton / Station Commander
Name / Title


Signature

5/6/2021
Date

Fire Department

Jon Frato Chief
Name / Title


Signature

5/6/21
Date

Jurisdictional Annex Review Sign-Off Sheet

Township of Byram
MUNICIPALITY NAME

Mayor/Administrator

Joseph Sabatini
Name


Signature

5/15/2021
Date

Engineer

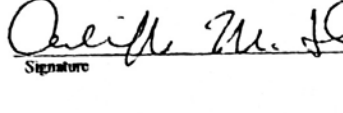
Carl L Stoner
Name


Signature

5/20/21
Date

Fiscal/CFO


Ashleigh Frueholz
Name


Signature

5/15/2021
Date

Building Code Official

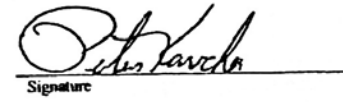
Peter Karcher
Name / Title


Signature

5/26/2021
Date

Floodplain Administrator

Peter Karcher
Name / Title


Signature

5/26/2021
Date

Emergency Manager

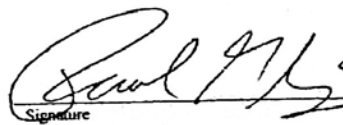
Thomas Kourdy
Name / Title


Signature

6-1-21
Date

Land Use Planner

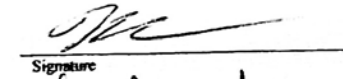
Paul Gleitz / Planner
Name / Title


Signature

5-27-21
Date

Public Works Director

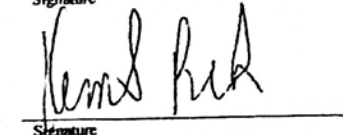
Michael Orsena
Name / Title


Signature

5/12/21
Date

Police Department

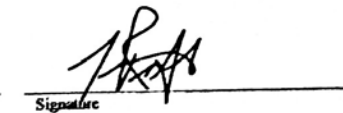
CHIEF KENNETH BURKE
Name / Title


Signature

5/10/2021
Date

Fire Department

Todd Rudloff - Chief
Name / Title


Signature

5/27/2021
Date

Jurisdictional Annex Review Sign-Off Sheet

Frankford Township
MUNICIPALITY NAME

Mayor/Administrator

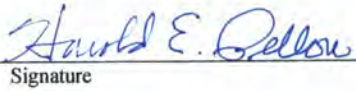
Lori Nienstedt
Name


Signature

5/5/2021
Date

Engineer

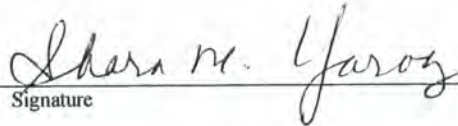
Harold E. Pellow
Name


Signature

5/12/21
Date

Fiscal/CFO

Sharon M. Jarosz
Name


Signature

5/5/21
Date

Building Code Official

ROBERT HYBER
Name / Title


Signature

5-5-21
Date

Floodplain Administrator

Name / Title

Signature

Date

Emergency Manager

JEFF Lewis
Name / Title


Signature

5/13/2021
Date

Land Use Planner


HAROLD E. PELLOW
Name / Title


Signature

5/13/21
Date

Public Works Director

Mark Yetter
Name / Title


Signature

5-5-21
Date

Police Department

Lt. J. Shutwell / Station Commander
Name / Title


Signature #5649

5/6/2021
Date

Fire Department

Name / Title

Signature

Date

Jurisdictional Annex Review Sign-Off Sheet

FRANKLIN BOROUGH

MUNICIPALITY NAME

Mayor/Administrator

John M. Sandoz IV Signature Date 5/6/21

Engineer

DENIS KEENAN Signature Date 5/11/21

Fiscal/CFO

DEBORAH BONANNO Deborah Bonanno Signature Date 5/10/21

Building Code Official

Name / Title Signature Date

Floodplain Administrator

Name / Title Signature Date

Emergency Manager

Jim Williams O.E.M. Signature Date 5/5/2021

Land Use Planner

KEN NELSON PLANNER Signature Date 5/12/21

Public Works Director

Brian Van Den Broek Signature Date 5/6/2021

Police Department

CHIEF GREGORY CUGLIARI Signature Date 5/6/21

Fire Department

Khyle Gorkin Chief Signature Date 5/5/21

Jurisdictional Annex Review Sign-Off Sheet

Signatures
5/13/2021

Township of Fredon
MUNICIPALITY NAME

Mayor/Administrator

John Flora

Name

DocuSigned by:

John Flora

21E488E6866742E
Signature

Date

Engineer

Harold Pellow

Name

DocuSigned by:

Harold Pellow

8A3AD278A724465...
Signature

Date

Fiscal/CFO

Deborah Bonanno

Name

DocuSigned by:

Deborah Bonanno

AAF770EAF842431
Signature

Date

Building Code Official

Leigh Witty

Name / Title

Leigh M. Witty

Signature

Date

Floodplain Administrator

Tom Knutelsky

Name / Title

DocuSigned by:

Thomas G Knutelsky

C90871EE6FD248F...
Signature

Date

Emergency Manager

Keith Festa

Name / Title

DocuSigned by:

Keith Festa

C7FAD6362A78488...
Signature

Date

Land Use Planner

Eileen Banyra

Name / Title

DocuSigned by:

Eileen Banyra

057CE80F1501482...
Signature

Date

Public Works Director

Matt Lambert

Name / Title

DocuSigned by:

Matt Lambert

FC99230EDCDB4CE...
Signature

Date

Police Department

n/a

Name / Title

Signature

Date

Fire Department

John Breece

Name / Title

DocuSigned by:

John Breece

E40C0C8851294E8...
Signature

Date

Jurisdictional Annex Review Sign-Off Sheet

Greep Township
MUNICIPALITY NAME

Mayor/Administrator

Mark Zschack, Administrator

Name

Signature

Date

Engineer

Cory Stoner, P.E., C.M.E.

Name

Signature

Date

Fiscal/CFO

Linda Padula, CFO

Name

Signature

Date

Building Code Official

Richard O'Connor, Construction Official

Name / Title

Signature

Date

Floodplain Administrator

Cory Stoner, P.E., C.M.E.

Name / Title

Signature

Date

Emergency Manager

Mike Rose, OEM Coordinator

Name / Title

Signature

Date

Land Use Planner

Jessica Caldwell, Principal Planner

Name / Title

Signature

Date

Public Works Director

Watson Perigo, Department Head

Name / Title

Signature

Date

Police Department

N/A

Name / Title

Signature

Date

Fire Department

Mike Rose, Chief

Name / Title

Signature

Date

Jurisdictional Annex Review Sign-Off Sheet

Greep Township
MUNICIPALITY NAME

Mayor/Administrator

Mark Zschack, Administrator

Name

Signature

05/07/2021

Date

Engineer

Cory Stoner, P.E., C.M.E.

Name

Signature

5/18/2021

Date

Fiscal/CFO

Linda Padula, CFO

Name

Signature

Date

Building Code Official

Richard O'Connor, Construction Official

Name / Title

Signature

Date

Floodplain Administrator

Cory Stoner, P.E., C.M.E.

Name / Title

Signature

Date

Emergency Manager

Mike Rose, OEM Coordinator

Name / Title

Signature

Date

Land Use Planner

Jessica Caldwell, Principal Planner

Name / Title

Signature

Date

Public Works Director

Watson Perigo, Department Head

Name / Title

Signature

Date

Police Department

N/A

Name / Title

Signature

Date

Fire Department

Mike Rose, Chief

Name / Title

Signature

Date

Jurisdictional Annex Review Sign-Off Sheet

BOROUGH OF HAMBURG
MUNICIPALITY NAME

Mayor/Administrator

PAUL MARINO
Name Signature Date 5-9-21

Engineer

John Ruschke, PE
Name Signature Date 5/5/2021

Fiscal/CFO

Christine Licato
Name Signature Date 5/6/2021

Building Code Official

JOSEPH BUTTO CONST. OFF.
Name / Title Signature Date 5/7/21

Floodplain Administrator

JOSEPH BUTTO CONST. OFF.
Name / Title Signature Date 5/7/21

Emergency Manager

Keith Sokanikoff - OEM-1
Name / Title Signature Date 5/5/2021

Land Use Planner

Name / Title Signature Date

Public Works Director

Michael Schneid5
Name / Title Signature Date 5/6/2021

Police Department

Jason Tangorra OIC
Name / Title Signature Date 5/6/2021

Fire Department

Richard Padgett Jr
Name / Title Signature Date 5/6/2021

Jurisdictional Annex Review Sign-Off Sheet

Township of Hampton
MUNICIPALITY NAME

Mayor/Administrator
Jessica M. Caruso, Administrator

Name

Signature

Date



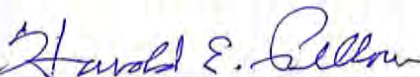
5/10/2021

Engineer
Harold E. Pellow

Name

Signature

Date




5/13/21

Fiscal/CFO
Jessica M. Caruso, CFO

Name

Signature

Date



5/10/2021

Building Code Official
Robert W. Huber

Name / Title

Signature

Date



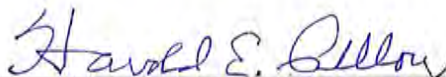
5-12-21

Floodplain Administrator
Harold E. Pellow

Name / Title

Signature

Date



5/13/21

Emergency Manager
Edward Hayes

Name / Title

Signature

Date



5/10/2021

Land Use Planner

Name / Title

Signature

Date

Public Works Director
Daniel Bayles

Name / Title

Signature

Date



5/10/21

Police Department
New Jersey State Police

Name / Title

Signature

Date

Lt. J. Skiswell / Station Commander Lt. J. 5649

5/13/21

Fire Department
Hampton Fire & Rescue

Name / Title

Signature

Date



5/11/21

Jurisdictional Annex Review Sign-Off Sheet

Hardyston Township

Mayor/Administrator

Carmine Kauffer
Name

[Signature]
Signature

5/5/2021
Date

Engineer

MICHAEL VREELAND
Name

[Signature]
Signature

5/11/21
Date

Fiscal/CFO

GRANT W ROME
Name

[Signature]
Signature

5/11/2021
Date

Building Code Official

JOSEPH BUTTO CONST. OFF.
Name / Title

[Signature]
Signature

5/7/21
Date

Floodplain Administrator

JOSEPH BUTTO CONST. OFF.
Name / Title

[Signature]
Signature

5/7/21
Date

Emergency Manager

WILLIAM HICKENSON
Name / Title

[Signature]
Signature

5-5-21
Date

Land Use Planner

Carmine Kauffer
Name / Title

[Signature]
Signature

5/5/2021
Date

Public Works Director

Name / Title

Signature

Date

Police Department

Name / Title

Signature

Date

Fire Department

Name / Title

Signature

Date

MUNICIPALITY NAME

Mayor/Administrator

Name Signature Date

Engineer

Name Signature Date

Fiscal/CFO

Name Signature Date

Building Code Official

Name / Title Signature Date

Floodplain Administrator

Name / Title Signature Date

Emergency Manager

Name / Title Signature Date

Land Use Planner

Name / Title Signature Date

Public Works Director

Robert Schultz

Name / Title Signature Date
5/5/21

Police Department

Name / Title Signature Date

Fire Department

Name / Title Signature Date

MUNICIPALITY NAME

Mayor/Administrator

Name Signature Date

Engineer

Name Signature Date

Fiscal/CFO

Name Signature Date

Building Code Official

Name / Title Signature Date

Floodplain Administrator

Name / Title Signature Date

Emergency Manager

Name / Title Signature Date

Land Use Planner

Name / Title Signature Date

Public Works Director

Name / Title Signature Date

Police Department

Scott M. Lobban/Chief Signature *Scott M. Lobban* Date 5/5/21

Fire Department

Name / Title Signature Date

Jurisdictional Annex Review Sign-Off Sheet

Borough of Hopkinton
MUNICIPALITY NAME

Mayor/Administrator

Ken Tappan

Name

[Signature]

Signature

6/7/21

Date

Engineer

John K. Ruschke, PE

Name

[Signature]

Signature

6/7/2021

Date

Fiscal/CFO

Lorraine Rosselli

Name

[Signature]

Signature

6/7/2021

Date

Building Code Official

William O'Connell c.o.

Name / Title

[Signature]

Signature

6/7/2021

Date

Floodplain Administrator

John K. Ruschke, PE

Name / Title

[Signature]

Signature

6/7/2021

Date

Emergency Manager

Wade Crowley coordinator

Name / Title

[Signature]

Signature

6/7/2021

Date

Land Use Planner

John K. Ruschke, PE

Name / Title

[Signature]

Signature

6/7/2021

Date

Public Works Director

Pat Mason / Superintendent

Name / Title

[Signature]

Signature

6/7/21

Date

Police Department

Robert Brennan chief

Name / Title

R. Brennan

Signature

6/7/2021

Date

Fire Department

Shaun Poland chief

Name / Title

[Signature]

Signature

6/7/2021

Date

Jurisdictional Annex Review Sign-Off Sheet

Township of Lafayette

MUNICIPALITY NAME

Mayor/Administrator

Greg Corcoran/ Mayor

Name

Gregory J Corcoran
Signature

Signature

5-4-2021

Date

Engineer

MICHAEL VREELAND

Name

Michael Vreeland
Signature

Signature

5/10/21

Date

Fiscal/CFO

Toni Grisaffi

Name

Toni Grisaffi
Signature

Signature

05/04/2021

Date

Building Code Official

Name / Title

Signature

Date

Floodplain Administrator

Richard Hughes/ EMC

Name / Title

RJ Hughes
Signature

Signature

5/4/2021

Date

Emergency Manager

Richard Hughes/ EMC

Name / Title

RJ Hughes
Signature

Signature

5/4/2021

Date

Land Use Planner

David Barisch

Name / Title

David Barisch
Signature

Signature

5/11/2021

Date

Public Works Director

William Macko
DPW Forman

Name / Title

William Macko
Signature

Signature

5/4/21

Date

Police Department

NJSP

Name / Title

Signature

Date

Fire Department

William Macko
Fire Chief

Name / Title

William Macko
Signature

Signature

5/4/21

Date

Jurisdictional Annex Review Sign-Off Sheet

Township of Montague

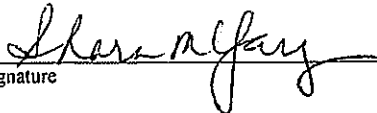
Mayor/Administrator

Mayor Richard E. Innella  5/25/21
Signature Date


Engineer

HAROLD E. PELLOW  5/18/21
Harold E. Pellow Signature Date

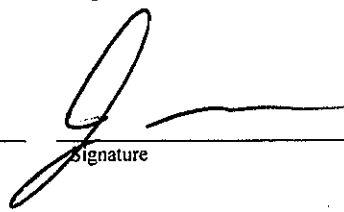
Fiscal/CFO

Sharon Yarosz  5/17/21
Signature Date

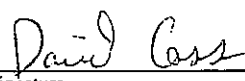
Building Code Official

Robert Huber  5-20-21
Signature Date

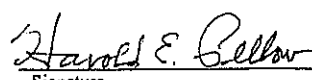
Floodplain Administrator

Jesse Brace-Revak  5/24/21
Signature Date

Emergency Manager

David Coss  5-18-21
Signature Date

Land Use Planner

HAROLD E. PELLOW  5/18/21
Harold E. Pellow Signature Date

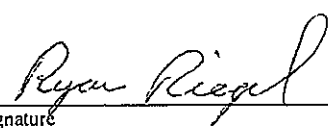
Public Works Director

David Coss  5-18-21
Signature Date

Police Department

N/A (State Police) Signature Date

Fire Department

Ryan Riegel  5-18-21
Signature Date

Jurisdictional Annex Review Sign-Off Sheet

TOWN OF NEWTON
MUNICIPALITY NAME

Mayor/Administrator

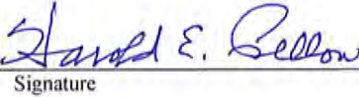
Thomas Russo
Name



5/12/2021
Date

Engineer

~~XXXXXX Stone~~ Harold Pellow
Name



5/18/21
Date

Fiscal/CFO

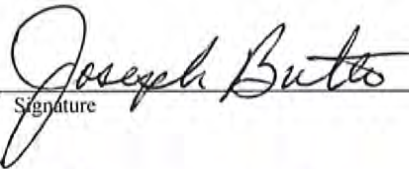
Monica Miebach
Name



5/13/2021
Date

Building Code Official

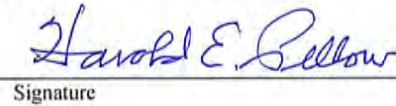
Joseph Butto
Name / Title



5/17/21
Date

Floodplain Administrator

~~XXXXXX Stone~~ Harold Pellow
Name / Title



5/18/21
Date

Emergency Manager

Kenneth Teets
Name / Title



5/13/2021
Date

Land Use Planner

Jessica Caldwell
Name / Title



5/18/21
Date

Public Works Director

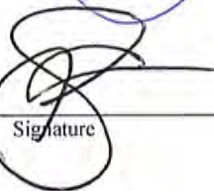
Adam Vough
Name / Title



5/13/2021
Date

Police Department

Robert Osborn
Name / Title



5/14/2021
Date

Fire Department

Anthony Razzano
Name / Title



5-13-2021
Date

Jurisdictional Annex Review Sign-Off Sheet

Borough of Ogdensburg

MUNICIPALITY NAME

Mayor/Administrator

George Hutnick
Name

George P. Hutnick
Signature

5/10/21
Date

Engineer

MICHAEL VREELAND
Name

Michael Vreeland
Signature

5/7/21
Date

Fiscal/CFO

MICHEL MARCEAU
Name

Michel Marceau
Signature

5/4/21
Date

Building Code Official

Leigh M. Witty Const. Official
Name / Title

Leigh M. Witty
Signature

5/11/2021
Date

Floodplain Administrator

MICHAEL VREELAND / BOROUGH ENGINEER
Name / Title

Michael Vreeland
Signature

5/7/21
Date

Emergency Manager

Richard Key's
Name / Title

Richard Key's
Signature

5/10/21
Date

Land Use Planner

Name / Title

Signature

Date

Public Works Director

Chris Ross Chris Ross
Name / Title

Chris Ross
Signature

5/11/21
Date

Police Department

Stephen Gordon chief
Name / Title

Stephen Gordon
Signature

5-10-21
Date

Fire Department

Eric Shaver Chief
Name / Title

Eric Shaver
Signature

5/10/21
Date

Jurisdictional Annex Review Sign-Off Sheet

SANDYSTON TOWNSHIP
MUNICIPALITY NAME

Mayor/Administrator

George B. Harper, Jr./Mayor
Name


Signature

5/11/2021
Date

Engineer

Harold E. Pellow
Name

n/a
Signature

Date

Fiscal/CFO

Jessica M. Caruso, CFO
Name

n/a
Signature

Date

Building Code Official

Robert W. Huber/Building Sub-Code
Name / Title


Signature

5/6/2021
Date

Floodplain Administrator


Robert W. Huber/Floodplain Admin
Name / Title


Signature

5/6/2021
Date

Emergency Manager

Shane Houghtaling
Name / Title


Signature

5/6/2021
Date

Land Use Planner

Jessica Caldwell
Name / Title

n/a
Signature

Date

Public Works Director

George B. Harper, Jr./Mayor
Name / Title


Signature

5/11/2021
Date

Municipal Clerk

Amanda F. Lobban, RMC
Name / Title


Signature

5/11/2021
Date

Fire Department

Scott House
Name / Title

n/a
Signature

Date

* Sandyston Township does not have a police department, rather covered by NJSP

Jurisdictional Annex Review Sign-Off Sheet

SPARTA TOWNSHIP

MUNICIPALITY NAME

Mayor/Administrator

CHRISTINE QUINN
Name

Signature

Date

5/5/21

Engineer

STANLEY PUSZCZ
Name

Signature

Date

5/5/21

Fiscal/CFO

GRANT W. ROME
Name

Signature

Date

5/4/2021

Building Code Official

Construction Official
Name / Title

Signature

Date

Denemick Carnevale

5/4/21

Floodplain Administrator

STANLEY C. PUSZCZ
Name / Title

Signature

Date

5/5/21

Emergency Manager

NEIL J. SPIDACIC ^{O.E.M.} _{COORD.}
Name / Title

Signature

Date

5/3/21

Land Use Planner

Diana Katzenstein
Name / Title

Signature

Date

Diana Katzenstein

5/4/2021

Public Works Director

James H. Zapp
Name / Title

Signature

Date

James H. Zapp

5-5-2021

Police Department

NEIL J. SPIDACIC ^{Chief}
Name / Title

Signature

Date

Neil J. Spidacic

5/3/21

Fire Department

Justin Muldoon ^{Chief}
Name / Title

Signature

Date

Justin Muldoon

5/5/21

Jurisdictional Annex Review Sign-Off Sheet

Stillwater Township
MUNICIPALITY NAME

Mayor/Administrator

Lisa Chamming's Mayor
Name

[Signature]
Signature

5/18/21
Date

Engineer

MICHAEL VREELAND
Name

[Signature]
Signature

5/18/21
Date

Fiscal/CFO

Tammy Leonard
Name

[Signature]
Signature

5/18/21
Date

Building Code Official

Rich Bizik
Name / Title

[Signature]
Signature

5/23/21
Date

Floodplain Administrator

Name / Title

Signature

Date

Emergency Manager

Lisa Chamming's OEM
Name / Title

[Signature]
Signature

5/18/21
Date

Land Use Planner

Name / Title

Signature

Date

Public Works Director

JOSH RAFF
Name / Title

[Signature]
Signature

5/21/21
Date

Police Department

Not Applicable
Name / Title

Signature

Date

Fire Department

Steven Sugar Chief
Name / Title

[Signature]
Signature

5/18/21
Date

Borough of Stanhope

Administrator
 Brian McNeilly
 Administrator

Name

Signature

Date



5/10/2021

Engineer
 Eric Keller
 Engineer

Name

Signature

Date



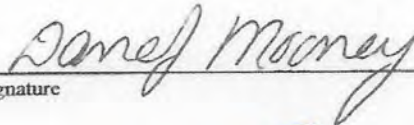
5/13/21

Fiscal/CFO
 Dana Mooney
 CFO

Name

Signature

Date



5/10/21

Building Code Official
 Thomas Perhouse
 Construction Official

Name / Title

Signature

Date



5/19/21

Floodplain Administrator
 Thomas Perhouse
 Construction Official

Name / Title

Signature

Date



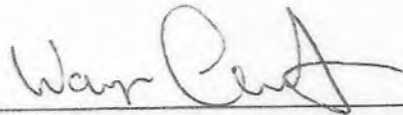
5/19/21

Emergency Manager
 Wayne Anthony
 Coordinator

Name / Title

Signature

Date



5/5/21

Land Use Planner

William Hamilton
 Name / Title

Signature

Date



5/19/21

Public Works Director
 Jason Titsworth
 DPW Supervisor

Name / Title

Signature

Date



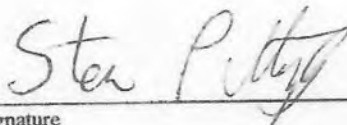
5/10/21

Police Department
 Steve Pittigher
 Police Chief

Name / Title

Signature

Date



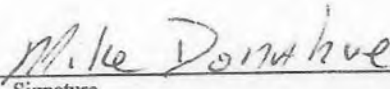
5/12/2021

Fire Department
 Mike Donahue
 Fire Chief

Name / Title

Signature

Date



5-5-21

Jurisdictional Annex Review Sign-Off Sheet

Borough of Sussex
MUNICIPALITY NAME

Mayor/Administrator

Edward J Meyer
Name

Edward J. Meyer
Signature

5/11/2021
Date

Engineer


Harold Pellow
Name

Harold E. Pellow
Signature

5/13/21
Date

Fiscal/CFO

Michael Marcean
Name


Signature

5/11/21
Date

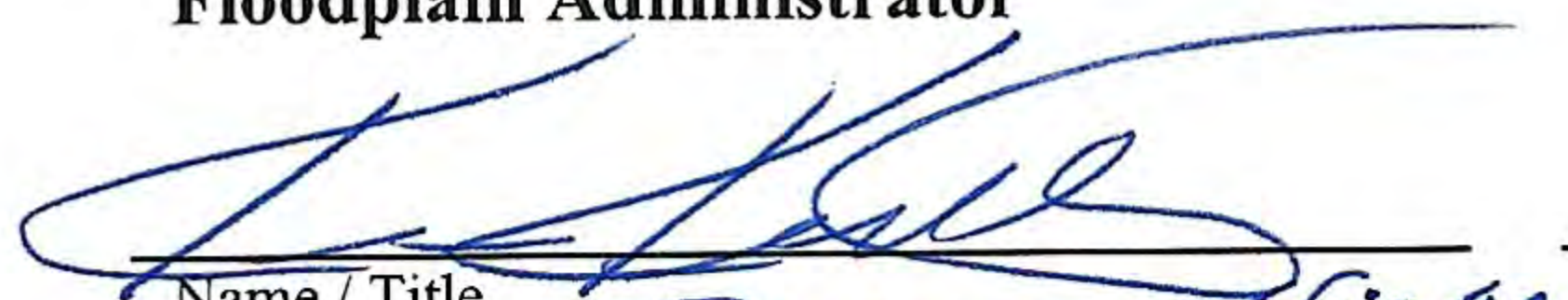
Building Code Official

JOSEPH BUTTO CONSTAFF
Name / Title

Joseph Butto
Signature

5/11/21
Date

Floodplain Administrator


Name / Title
ZONING OFFICER

KEVIN KERVATT
Signature

5/5/21
Date

Emergency Manager

Floyd Southard ^{OEM} Coordinator
Name / Title

Floyd Southard
Signature

5/4/2021
Date

Land Use Planner

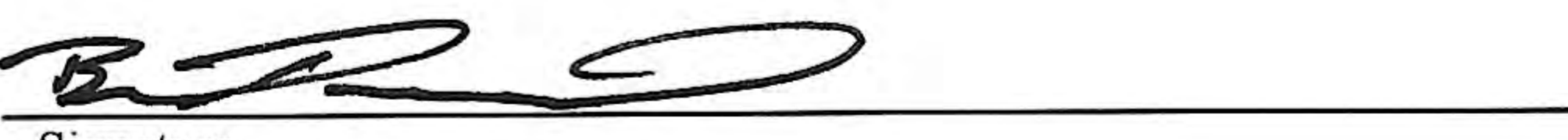
KEN NELSON
Name / Title


Signature

5/11/21
Date

Public Works Director

Brian Demarest
Name / Title


Signature

5/10/21
Date

Police Department

Name / Title

Signature

Date

Fire Department

Mar Leech, Chief
Name / Title

Mar Leech
Signature

5/11/21
Date

Jurisdictional Annex Review Sign-Off Sheet

TOWNSHIP OF VERNON
MUNICIPALITY NAME

Mayor/Administrator

HOWARD L. BURRELL
Name

Howard L. Burrell
Signature

5.18.21
Date

Engineer

Name

Signature

Date

Fiscal/CFO

Dwelle K. Brasut
Name

[Signature]
Signature

5/6/21
Date

Building Code Official

RA Wadhwa
Name / Title

RA Wadhwa
Signature

5/18/21
Date

Floodplain Administrator

Name / Title

Signature

Date

Emergency Manager

Kenneth W Clark OEM Coordinator
Name / Title

Kenneth W. Clark
Signature

5/3/2021
Date

Land Use Planner

Name / Title

Signature

Date

Public Works Director

[Signature] Director
Name / Title
Ed Babcock

[Signature]
Signature

5/7/21
Date

Police Department

Daniel B. Young Chief of Police
Name / Title

[Signature] #43
Signature

5-5-21
Date

Fire Department

[Signature] PVFD Chief
Name / Title

[Signature]
Signature

5/18/21
Date

Jurisdictional Annex Review Sign-Off Sheet

TOWNSHIP OF VERNON
MUNICIPALITY NAME

Mayor/Administrator

HOWARD L. BURRELL Howard L. Burrell 5-18-21
Name Signature Date

Engineer

Cory L. Stoner [Signature] 5/18/21
Name Signature Date
Twp. Engineer

Fiscal/CFO

Dannelle K. Bayut [Signature] 5/16/21
Name Signature Date

Building Code Official

Name / Title Signature Date

Floodplain Administrator

Cory L. Stoner [Signature] 5/18/21
Name / Title Signature Date
Twp. Engineer

Emergency Manager

Kenneth W. Clark OEM Coordinator Kenneth W. Clark 5/3/2021
Name / Title Signature Date

Land Use Planner

Jessica Caldwell [Signature] 5/19/21
Name / Title Signature Date
Twp. Planner

Public Works Director

[Signature] [Signature] 5/7/21
Name / Title Signature Date
Ed Babcock

Police Department

Daniel B. Young Chief of Police [Signature] 5-5-21
Name / Title Signature Date

Fire Department

Name / Title Signature Date

Jurisdictional Annex Review Sign-Off Sheet

WALPACK TOWNSHIP
MUNICIPALITY NAME

Mayor/Administrator

VICTOR J. MAGLIO
Name

Victor J. Maglio
Signature

5/18/2021
Date

Engineer

Name

Signature

Date

Fiscal/CFO

Name

Signature

Date

Building Code Official

Name / Title

Signature

Date

Floodplain Administrator

Name / Title

Signature

Date

Emergency Manager

Name / Title

Signature

Date

Land Use Planner

Name / Title

Signature

Date

Public Works Director

Name / Title

Signature

Date

Police Department

Name / Title

Signature

Date

Fire Department

Name / Title

Signature

Date

Jurisdictional Annex Review Sign-Off Sheet

Wantage Twp

MUNICIPALITY NAME

Mayor/Administrator

MICHAEL RESTEL

[Signature]

5/14/21

Name

Signature

Date

Engineer

HAROLD E. PELLOW

Harold E. Pellow

5/18/21

Name

Signature

Date

Fiscal/CFO

Ashley Wilson

Ashlylle

5/14/21

Name

Signature

Date

Building Code Official

JOSEPH BUTTO CONST. OFF.

Joseph Butto

5/19/21

Name / Title

Signature

Date

Floodplain Administrator

JOSEPH BUTTO CONST. OFF.

Joseph Butto

5/19/21

Name / Title

Signature

Date

Emergency Manager

Joseph Korcopinski Coordinator

Joseph Korcopinski

5/11/21

Name / Title

Signature

Date

Land Use Planner

Name / Title

Signature

Date

Public Works Director

claud R wagner

claud R wagner

5/17/21

Name / Title

Signature

Date

Police Department

Name / Title

Signature

Date

Fire Department

Mark Snook, Chief

Mark Snook

5/11/21

Name / Title

Signature

Date



APPENDIX C. MEETING DOCUMENTATION

Appendix C includes meeting agendas, sign-in sheets and meeting notes (where applicable and available) for meetings convened during the development of the Sussex County HMP update.



**SUSSEX COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN - 2021 UPDATE
Project Management Team Meeting – Agenda
July 22, 2020 at 9:00am**



Scope and Schedule

- Brief review of our approved proposal
- Plan approved by July 28, 2021

Municipal Participation

- Letters of Intent to Participate – County to distribute letter (*template to be provided by Tetra Tech*)

Review Steering Committee Composition

Previous HMP Steering Committee Members

Previous Organization	Previous Member Name	Previous Member Title
Sussex County Sheriff’s Office, Division of Emergency Management	Sheriff Michael F. Strada Corporal Mark Vogel	Sheriff, Emergency Management Coordinator Deputy Emergency Management Coordinator
Sussex County Division of Public Works	Scott House	Director
Sussex County Administrator	Ronald Tappan	County Administrator
Sussex County Engineering Department	William J. Koppenaar	Assistant County Engineer
Sussex County Department of Central and Shared Services	Ronald L. Tappan	Administrator
Sussex County Division of Planning	Eric Snyder	Planning Director
<i>Sussex County Health and Human Services – Division of Health</i>		
<i>Sussex County Facilities Management</i>		
<i>Rutgers Cooperative Extension of Sussex County</i>		
<i>2 or more Municipal representatives</i>		
<i>Sussex County Soil and Water Conservation District (as of 7/1/20 now the Upper Delaware Conservation District)</i>		

Red text is suggested additional members to meet recent State requests

Information and Data Collection

- GIS Point of Contact for spatial data
 - Previous 2016 critical facility list
 - Lifelines – FEMA incorporating into mitigation
- Point of Contact for reviewing Public Information (brochure/surveys/announcements)
 - Draft content for website update, newsletter, social media content
- County seal and plan style
- Hazards – consider adding disease outbreak/pandemic



**SUSSEX COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN - 2021 UPDATE
Project Management Team Meeting - Agenda
July 22, 2020 at 9:00am**



Meeting Logistics

- Meetings will be virtual due to COVID-19 restrictions
- Schedule first Steering Committee meeting – *August 2020*
- Schedule Planning Partnership kickoff meeting (Steering Committee, all municipalities and other stakeholders) – *September 2020*
- Annex updates – *Fall through Winter 2020/2021*
- Risk Assessment meeting – *November 2020*
- Mitigation Strategy workshop – *December 2020*

In-Kind Tracking

- County can begin tracking all time with the development of RFP, reviews, meetings, this call etc. – *template to be provided by Tetra Tech*
- Tetra Tech to track meeting attendance for all participants



**SUSSEX COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN - 2021 UPDATE
Steering Committee Kick-Off Meeting – Agenda
August 18, 2020 9-10am**



Introductions

Scope and Schedule

- Brief review
- Plan approved by August 2021
- Letters of Intent to Participate
- In-Kind Tracking

Steering Committee Role and Responsibilities

Information and Data Collection

- Critical Facilities and Lifelines
 - *Critical facilities and infrastructure provide services and functions essential to a community, especially during and after a disaster.*
 - *A lifeline, a type of critical facility, enables the continuous operation of government functions and critical business and is essential to human health and safety or economic security.*
 - Previous 2016 critical facility list
 - Lifelines – FEMA incorporating into mitigation

Public and Stakeholder Outreach

- County website
- Brochure
- News/Press release
- Social media content
- Stakeholder and Citizen Surveys
- Neighboring County Outreach

Review 2016 HMP

- Hazards of Concern
- Goals and Objectives

Next Steps

- Attend Municipal Kick-Off – September 10, 2020 (virtual)
- Provide update on 2016 County mitigation actions – *to be distributed*

Contact Information

Alison Miskiman (alison.miskiman@tetrattech.com; 973-630-8045)

Chris Huch (chris.huch@tetrattech.com; 973-630-8357)



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
STEERING COMMITTEE KICKOFF MEETING
DATE: August 18, 2020, 9:00am - 10:00am**



Name	Dept/Agency/ Municipality	Email
Bob Haffner	Sussex County Sheriff's Office	rhaffner@sussexcountysheriff.com
Jen Van Der Wende	Sussex County Sheriff's Office	jenvanderwende@sussexcountysheriff.com
Gregory V. Poff	Sussex County Emergency Management	gpoff@sussex.nj.us
Tom Drabic	Sussex County Emergency Management	tdrabic@sussex.nj.us
Carol Novrit	County Administration	cnovrit@sussex.nj.us
Keith Nelson	Sussex Planning & Zoning Office	knelson@sussex.nj.us
Stephen Komar	Sussex County Health and Human Services	komar@njaes.rutgers.edu
Joe Konopinski	Sussex County Facilities Management	jkonopin@ptd.net
Alison Miskiman	Tetra Tech	alison.miskiman@tetrattech.com
Chris Huch	Tetra Tech	chris.huch@tetrattech.com



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD
MITIGATION PLAN - 2021 UPDATE Planning
Partnership Kick-Off Meeting - Agenda
September 10 2020 9-10am**



Welcome and Opening Remarks

Why is Hazard Mitigation Important?

Mitigation Planning Process

Overview of the Current Plan

Why is Municipal Participation Important?

Strategies for Achieving Mitigation Goals

Participation Requirements and Timeline

In-Kind Tracking

General Discussion/Q & A

Next Steps:

- 1st Annex Meetings
- Risk Assessment Meeting – to be scheduled

Wrap-up

Contact Information

Alison Miskiman (alison.miskiman@tetrattech.com; 973-630-8045)

Chris Huch (chris.huch@tetrattech.com; 973-630-8357)



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
PLANNING PARTNERSHIP KICKOFF MEETING
DATE: September 10, 2020 9-10am**



Name	Dept/Agency/ Municipality	Email	Phone Number
Robert Haffner	Division of Emergency Management	rhaffner@sussexcountysheriff.com	
Jen Van Der Wende	Division of Emergency Management	jenvanderwende@sussexcountysheriff.com	
William J. Koppenaal	Sussex County Engineering Department	BKoppenaal@sussex.nj.us	
Tom Drabic	Sussex County Division of Planning	tdrabic@sussex.nj.us	
Keith Nelson	Sussex County Facilities Management	knelson@sussex.nj.us	
Manny Ayers	Newton Medical Hospital	manford.ayers@atlanticealth.org	
Fred Mamay	Sussex County Community College	fmamay@sussex.edu	
Joe Konopinski	Wantage	jkonopin@ptd.net	
George Loudis	Andover Township	glaoudis@atpd.org	
Manny Ayers	Newton Medical Hospital	manford.ayers@atlanticealth.org	
Beata Dumala	Newton Medical Hospital	Beata.Dumala@atlanticealth.org	
Fred Mamay	Sussex County Community College	fmamay@sussex.edu	
George Laoudis	Andover Township	glaoudis@atpd.org	(862) 881-6032
Jim Williams	Franklin Borough	lauranjenna@gmail.com	(862) 268-7788
Keith Festa	Fredon, Township of	firecop1534@gmail.com	516-456-1374
Debra Prommell	Fredon, Township of	clerk@fredonnj.gov	(973) 383-7025 x22



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
PLANNING PARTNERSHIP KICKOFF MEETING
DATE: September 10, 2020 9-10am**



Name	Dept/Agency/ Municipality	Email	Phone Number
Keith Sukennikoff	Hamburg, Borough of	oem@hamburgnj.org	(973) 670-0105
John Ruschke	Hamburg, Borough of		
Edward Hayes	Hampton, Township of	biged5679@yahoo.com	(973) 592-2767
Jessica M. Caruso	Hampton, Township of	administrator@hamptontwp-nj.org	(973) 383-5570
William Hickerson	Hardyston, Township of	wmhickerson@gmail.com	(973) 615-5687
Richard Hughes	Lafayette Township	hughesr22@gmail.com	(973) 985-5971
Robert Huber	Montague, Township of	construction@montaguenj.org	(973) 293-3366
Dan Finkle	Newton, Town of	dfinkle@newtonoem.org	(973) 383-3521 x 267
Terry	Newton, Town of		
Terry Oswin	Newton, Town of		
Richard Keslo	Ogdensburg, Borough of	OFDchief251@yahoo.com	(201) 400-9873
Stanley J. Dutkus	Sandyston Township	standsr@optonline.net	(973) 293-2002
Amy Lobban	Sandyston Township		
Neil Spidaletto	Township of Sparta	nspidaletto@spartapd.org	(973) 726-4011
Lisa Chammings	Stillwater Township	lchammings@ptd.net	(973) 903-3003
Floyd Southard	Borough of Sussex	oem@sussexboro.com	(973) 534-7258
Robert Regavich	Borough of Sussex	rregavich@gmail.com	(973) 271-2047
Ken Clark	Vernon, Township of	kenclark213@gmail.com	(973) 600-7612
Victor Maglio	Walpack, Township of	walpackmayor@gmail.com	
Joe Konopinski	Township of Wantage	jkonopin@ptd.net	(973) 222-7269
Michael Restel	Township of Wantage	mike@wantagewp-nj.org	(973) 647-5015



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
PLANNING PARTNERSHIP KICKOFF MEETING
DATE: September 10, 2020 9-10am**



Name	Dept/Agency/ Municipality	Email	Phone Number
Claudia Raffay	Sussex Rural Electric Coop		
Chris Testa	NJOEM		
Robert Burd	NJDOT Office of EM and State HMP Team		
Joe Ruggeri	NJDEP NFIP Coordinador		
Brian Syner	Pike County PA		
Tim Knapp	Pike County PA		
Jacqueline Espinoza	JCP&L		
Dan Suhr			
Michael Moran	Division of Emergency Management	rhaffner@sussexcountysheriff.com	



**SUSSEX COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN - 2021 UPDATE
Annex Training – Agenda
September 22 and 24, 2020 9-10am**



Welcome and Opening Remarks

Benefits of Hazard Mitigation

Hazard Mitigation Planning Overview

Updating Municipal Annexes

In-Kind Services Tracking

Schedule

Questions

Next Steps

Contact Information

Alison Miskiman (alison.miskiman@tetrattech.com; 973-630-8045)

Chris Huch (chris.huch@tetrattech.com; 973-630-8357)



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
ANNEX TRAINING
DATE: September 22, 2020 9:00-10:00am**



Name	Title	Agency/Municipality	Phone Number	E-mail
Jeff Lewis	OEM Coordinator	Borough of Branchville and Frankford		
Beata Dumala		Newton Medical Hospital		
Mark Zschack	Municipal Clerk/Administrator	Green, Township of		
Eileen DeFabiis	Clerk	Montague, Township of		
Jesse Brace-Revak	Deputy OEM Coordinator	Montague, Township of		
Dan Finkle	Deputy OEM Coordinator	Newton, Town of		
Jessica Caldwell	Planner	Newton, Town of		
Terry Oswin	Deputy Town Manager/Deputy Municipal Clerk	Newton, Town of		
Thomas McIntyre	Deputy Director OEM	Township of Sparta		
Amanda (Amy) Lobban	Clerk	Sandyston Township		
Floyd Southard	OEM Coordinator	Borough of Sussex		
Joe Konopinski	OEM Coordinator	Township of Wantage		
Chris Huch	Project Manager	Tetra Tech		



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
ANNEX TRAINING
DATE: September 24, 2020 9:00-10:00am**



Name	Title	Agency/Municipality	Phone Number	E-mail
Robert Haffner	Division of Emergency Management	Sussex County		
Jen Van Der Wende	Division of Emergency Management	Sussex County		
Gregory V. Poff	County Administrator	Sussex County Administrator; Department of Central and Shared Services		
Fred Mamay	Director Campus Safety & Security	Sussex County Community College		
William J. Koppenaal	Assistant County Engineer; Sussex County Planning Board Member	Sussex County Engineering Department		
George Loudis	Andover Township Deputy OEM Coordinator	Andover Township		
Stephen Komar	Administrator Rutgers Extension - Faculty	Rutgers Cooperative Extension of Sussex County		
Chris Huch	Project Manager	Tetra Tech		
Keith Festa	OEM Coordinator	Fredon, Township of		
Carl Lazzaro	OEM Coordinator, third	Fredon, Township of		
Debra Prommell	Acting Municipal Clerk	Fredon, Township of		
Ken Burke	Deputy Emergency Management Coordinator	Byram, Township of		
Edward Hayes	Emergency Management	Hampton, Township of		



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
ANNEX TRAINING
DATE: September 24, 2020 9:00-10:00am**



Name	Title	Agency/Municipality	Phone Number	E-mail
	Coordinator			
William Hickerson	OEM Coordinator	Hardyston, Township of		
Richard Hughes	Committeeman/EMC	Lafayette Township		
Eileen DeFabiis	Clerk	Montague, Township of		
Neil Spidaletto	OEM Coordinator	Township of Sparta		
Stan Puszcz	Deputy OEM Coordinator	Township of Sparta		
Brian McNeilly	Borough Administrator	Stanhope, Borough of		
Ken Clark	OEM Coordinator	Vernon, Township of		
Dan Young	Police Chief/Deputy OEM Coordinator	Vernon, Township of		
Victor J. Maglio	Mayor	Walpack, Township of		



**SUSSEX COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN - 2021 UPDATE
Steering Committee Meeting – Agenda
October 22, 2020 1-2pm**



Welcome and Opening Remarks

Project Status

Linkage Procedures

2021 Hazards Review

Draft Risk Assessment Results

SWOO (Strengths, Weaknesses, Obstacles and Opportunities)

Development of Problem Statements

In-Kind Tracking

Next Steps

- Risk Assessment Meeting: October 28, 2020 at 4pm (Steering Committee and all plan participants)
- Mitigation Strategy Workshop: November 14, 2020 at 4pm (Steering Committee and all plan participants)

Contact Information

Alison Miskiman (alison.miskiman@tetrattech.com; 973-630-8045)

Chris Huch (chris.huch@tetrattech.com; 973-630-8357)

Sussex County Multi-Jurisdictional
2021 Hazard Mitigation Plan Update



Purpose of Meeting:	Steering Committee Meeting
Location of Meeting:	Teleconference
Date of Meeting:	October 22, 2020 1-2:15pm

Attendees:
See attendance sheet

Agenda Summary:

Item No.	Description	Action item(s):
1	<p>Project Status –</p> <ul style="list-style-type: none"> • Overview of project status • Public outreach summary provided • Story Map coming soon • Request to support public outreach 	Steering Committee to support public outreach and let Tetra Tech know efforts made.
2	<p>Linkage Procedures</p> <ul style="list-style-type: none"> • Summarized to the Steering Committee • No objections to include as appendix in the plan update 	
3	<p>Draft Risk Assessment Results</p> <ul style="list-style-type: none"> • Results of the risk assessment reported to date for each hazard of concern • The committee requested that white tailed deer and Canada geese be added to the invasive species and infestation profile as they are local problem species. • The committee also suggested looking into the Purdue Economic Impact Calculator for emerald ash borer 	
4	<p>Hazard Ranking</p> <ul style="list-style-type: none"> • The formula was approved with the following percentage values: 40% Probability; 40% Impact; 15% Adaptive Capacity; 5% Climate Change • The following changes were made to the preliminary countywide hazard ranking – see Excel file for comments from Steering Committee <ul style="list-style-type: none"> ○ Hazardous Materials – change from medium to high ○ Invasive Species – change from medium to high ○ Severe weather – change from medium to high 	Tetra Tech to update the Hazard Ranking for the County and report out the final to the Planning Partnership at the 10/28 meeting next week
5	<p>SWOO</p> <ul style="list-style-type: none"> • Summary of exercise given 	Steering Committee to take the online SWOO

Sussex County Multi-Jurisdictional
2021 Hazard Mitigation Plan Update



	<ul style="list-style-type: none"> • Summary of input received to date • Request to Steering Committee to complete the online SWOO prior to next week's meeting (on 10/28) 	Tetra Tech to redistribute the link post-meeting
6	In-Kind Tracking – reminder given to Steering Committee to complete such as filling out the SWOO online	
7	Upcoming Meetings <ul style="list-style-type: none"> • Risk Assessment meeting 10/28 at 4pm • Change the Mitigation Workshop to 11/12 at 4pm 	Tetra Tech to redistribute the 11/12 Meeting invitation



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
STEERING COMMITTEE MEETING
DATE: October 22, 2020 1-2:15pm**



Name	Dept/Agency/ Municipality	Email	Phone Number
Jen Van Der Wende	Sussex County Sheriff's Office		
Steven Komar	Rutgers Cooperative Extension of Sussex County		
Fred Mamay	Sussex County Community College		
Joe Konopinski	Wantage		
George Loudis	Andover Township		
Tom Drabic	Sussex County Division of Planning		
Autumn Sylvester	Sussex County Division of Planning and Economic Development		
Scott House	Sussex County Division of Public Works		
Chris Huch	Tetra Tech		
Alison Miskiman	Tetra Tech		



**SUSSEX COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN - 2021 UPDATE
Risk Assessment Meeting – Agenda
October 28, 2020 4-5pm**



Welcome and Opening Remarks

Project Status

2021 Hazards Review

Draft Risk Assessment Results

SWOO (Strengths, Weaknesses, Obstacles and Opportunities)

Development of Problem Statements

In-Kind Tracking

Next Steps

- Mitigation Strategy Workshop: November 14, 2020 at 4pm (Steering Committee and all plan participants)

Contact Information

Alison Miskiman (alison.miskiman@tetrattech.com; 973-630-8045)

Chris Huch (chris.huch@tetrattech.com; 973-630-8357)



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
RISK ASSESSMENT MEETING
DATE: October 28, 2020 4-5:00pm**



Name	Title	Agency/Municipality	Phone Number	E-mail
Robert Haffner	Division of Emergency Management	Sussex County		
Jen Van Der Wende	Division of Emergency Management	Sussex County		
Tom Drabic	Sussex County Division of Planning	Sussex County		
Joe Konopinski	Sussex County Facilities Management, Wantage Township	Wantage Township		
Jeff Lewis	OEM Coordinator	Borough of Branchville		
Thomas Koundry	Byram, Township of	Byram, Township of		
Jeff Lewis	Frankford Township	Frankford Township		
Mark Zschack	Municipal Clerk/Administrator	Township of Green		
Samantha Anello	Borough Engineer	Borough of Hamburg		
Edward Hayes	Township Emergency Management Coordinator	Township of Hampton		
Jessica M. Caruso	Administrator	Township of Hampton		
William Hickerson	OEM Coordinator	Township of Hardyston		
Wade Crowley	OEM Coordinator	Borough of Hopatcong		
Samantha Anello	Engineer	Borough of Hopatcong		
Richard Hughes	Committeeman/ Emergency Management Coordinator	Township of Lafayette		



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
RISK ASSESSMENT MEETING
DATE: October 28, 2020 4-5:00pm**



Name	Title	Agency/Municipality	Phone Number	E-mail
Jesse Brace-Revak	Deputy Emergency Management Coordinator	Township of Montague		
Amy Lobban	Municipal Clerk	Township of Sandyston		
Lisa Chammings	Mayor/OEM	Township of Stillwater		
Floyd Southard	OEM Coordinator	Township of Stillwater		
Ken Clark	OEM Coordinator	Township of Vernon		
Dan Young	Deputy OEM Coordinator/Police Chief	Township of Vernon		
Victor J. Maglio	Mayor	Township of Walpack		
Joe Konopinski	OEM Coordinator	Township of Wantage		
Howard Wolf	NJOEM			
Tim Knapp	OEM	Pike County PA		



**SUSSEX COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN - 2021 UPDATE**
Mitigation Strategy Workshop – Agenda
November 12, 2020 4-5pm



Open to the Public

Welcome and Opening Remarks

Project Status - Where we are in the process

Mitigation Strategy Update Overview

- Overview - *What is it and how do we develop it?*
- NJ and FEMA Requirements - *NJOEM and FEMA*

Mitigation Development Handout – *Review and update problem statements and identifying potential solutions*

Proposed Action Tables – *Collection and Prioritization of your actions*

Mitigation Action Worksheets

In-Kind Tracking

Next Steps

- Review, update and return the Mitigation Development Handout by Friday, 11/13/20
- Work with Tetra Tech planners to complete annexes, mitigation actions, and action worksheets
- Public Review, NJOEM and FEMA submission

Contact Information

Alison Miskiman (alison.miskiman@tetrattech.com; 973-630-8045)

Chris Huch (chris.huch@tetrattech.com; 973-630-8357)



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
MITIGATION STRATEGY WORKSHOP
DATE: November 12, 2020 4-5:00pm**



Name	Title	Agency/Municipality	Phone Number	E-mail
Robert Haffner	Division of Emergency Management	Sussex County		
Jen Van Der Wende	Division of Emergency Management	Sussex County		
Tom Drabic	Sussex County Division of Planning	Sussex County		
Joe Konopinski	Sussex County Facilities Management, Wantage Township	Wantage Township		
Jeff Lewis	OEM Coordinator	Borough of Branchville, Frankford Township		
Samantha Anello	Borough Engineer	Borough of Hamburg		
Edward Hayes	Township Emergency Management Coordinator	Township of Hampton		
Jessica M. Caruso	Administrator	Township of Hampton		
Harold Pellow	Engineer	Township of Hampton		
William Hickerson	OEM Coordinator	Township of Hardyston		
Carrie Piccolo-Kaufer	Township Manager/Planner	Township of Hardyston		
Joseph Butto	Construction Official	Township of Hardyston		
Wade Crowley	OEM Coordinator	Borough of Hopatcong		
Ron Tappan	Administrator	Borough of Hopatcong		



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
MITIGATION STRATEGY WORKSHOP
DATE: November 12, 2020 4-5:00pm**



Name	Title	Agency/Municipality	Phone Number	E-mail
William O'Connor	Construction Official	Borough of Hopatcong		
Samantha Anello	Engineer	Borough of Hopatcong		
Richard Hughes	Committeeman/ Emergency Management Coordinator	Township of Lafayette		
Jesse Brace-Revak	Deputy Emergency Management Coordinator	Township of Montague		
Dan Finkle	Deputy OEM Coordinator	Town of Newton		
Amy Lobban	Municipal Clerk	Township of Sandyston		
Stan Puszczyk	Township Engineer	Township of Sparta		
Lisa Chammings	Mayor/OEM	Township of Stillwater		
Floyd Southard	OEM Coordinator	Township of Stillwater		
Ken Clark	OEM Coordinator	Township of Vernon		
Dan Young	Deputy OEM Coordinator/Police Chief	Township of Vernon		
Victor J. Maglio	Mayor	Township of Walpack		
Joe Konopinski	OEM Coordinator	Township of Wantage		



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
MITIGATION STRATEGY WORKSHOP
DATE: November 12, 2020 4-5:00pm**



Name	Title	Agency/Municipality	Phone Number	E-mail
Chris Testa	NJOEM			
Howard Wolf	NJOEM			



**SUSSEX COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN - 2021 UPDATE
Steering Committee Meeting – Agenda
February 9, 2021 10-11am**



Welcome and Opening Remarks

Project Status

Linkage Procedures – *draft circulated for review*

Plan Maintenance – *draft circulated for review*

Draft Plan Review

- Draft Volume I and Volume II sections will be posted on OneDrive for review
- One consolidated document with changes in track changes
- Email approval from municipalities can post for public review

County Annex – Status of Previous Actions

- Inventory the critical facilities to identify those in geographic areas that may be prone to high ground motion during earthquakes (due to proximity to faults or to soil characteristics), and those with structures that may be at risk during an earthquake. Study will include determine soil and shake characteristics.
- Work to determine soil and shake characteristics at specific sites that the county has identified as priority critical facilities with potential vulnerabilities to earthquake forces. Based on these results, analyze the critical structures to determine if the structures are sound and next steps to further mitigate.
- Identify wind vulnerabilities at County critical facilities because buildings were designed to 70 mph; new updated code is 90 mph.
- Undertake a survey of critical facilities to identify and prioritize those that may have structural characteristics that make them vulnerable to excessive snow and ice loads such as the Sheriff's Office. (Is the Sheriff's Office roof part of the reconstruction?)
- Is there a generator installed at the Office of Bridges and Traffic?

In-Kind Tracking

Next Steps

- Finalize draft annexes and request approval for posting for public review
- Steering Committee and municipalities review and comment on Volume I
- Post for public review March 2021 (30 days minimum)

Contact Information

Alison Miskiman (alison.miskiman@tetrattech.com; 973-630-8045)

Chris Huch (chris.huch@tetrattech.com; 973-630-8357)



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
MITIGATION STRATEGY WORKSHOP
DATE: February 9, 2021 10:00-11:00am**



Name	Title	Agency/Municipality	Phone Number	E-mail
Robert Haffner	Division of Emergency Management	Sussex County		
Jen Van Der Wende	Division of Emergency Management	Sussex County		
Joe Konopinski	Sussex County Facilities Management, Wantage Township	Wantage Township		
Scott House	Director	Sussex County Public Works		
Fred Mamay	Director Campus Safety & Security	Sussex County Community College		
William J. Koppenaal	Assistant County Engineer; Sussex County Planning Board Member	Sussex County Engineering Department		
Tom Drabic	Planning Director	Sussex County Division of Planning		
George Loudis	Andover Township Deputy OEM Coordinator	Andover Township		
Stephen Komar	Administrator Rutgers Extension - Faculty	Rutgers Cooperative Extension of Sussex County		
Alison Miskiman	Project Manager	Tetra Tech		



**SUSSEX COUNTY MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN - 2021 UPDATE
Steering Committee Meeting – Agenda
March 29, 2021 10-11am**



Welcome and Opening Remarks

Project Status

Draft Plan Review

- Draft Volume I and Volume II sections have been posted on OneDrive for review
- Overview of draft plan presented
- Comments/questions from Steering Committee

In-Kind Tracking

Next Steps

- Post for public review April 2021 (30 days minimum)

Contact Information

Alison Miskiman (alison.miskiman@tetrattech.com; 973-630-8045)

Chris Huch (chris.huch@tetrattech.com; 973-630-8357)



**SUSSEX COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE
SIGN-IN SHEET
MITIGATION STRATEGY WORKSHOP
DATE: March 29, 2021 10:00-11:00am**



Name	Title	Agency/Municipality	Phone Number	E-mail
Robert Haffner	Division of Emergency Management	Sussex County		
Jen Van Der Wende	Division of Emergency Management	Sussex County		
Joe Konopinski	Sussex County Facilities Management, Wantage Township	Wantage Township		
Scott House	Director	Sussex County Public Works		
Alison Miskiman	Project Manager	Tetra Tech		



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 2 (Planning Process). Public and stakeholder input has been incorporated throughout this HMP as appropriate, as identified in Section 2 and Appendices B and C, as well as within specific mitigation initiatives identified within the jurisdictional annexes (Section 9).

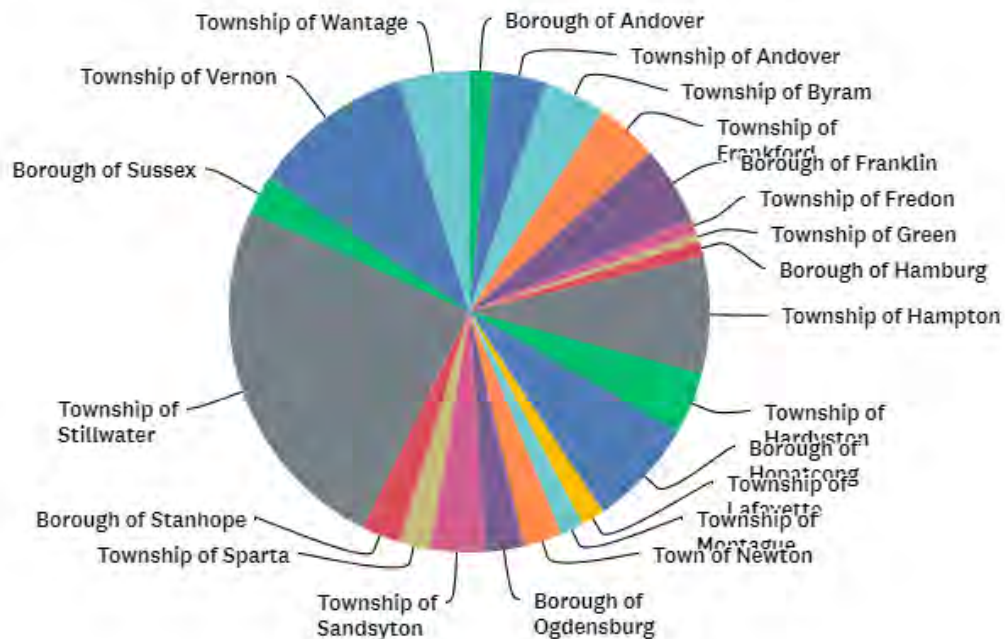
D.1 CITIZEN SURVEY



This section contains information and results gathered from the Sussex 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. The survey was available on the Sussex County OEM’s HMP website beginning in the early fall of 2020. County departments and several municipalities also posted the survey on their websites and social media as shown in the figures below.

A total of 243 respondents completed this survey through April 2021. Respondents primarily consisted of individuals who have lived in Sussex County for 20 years or more and own their home. Survey respondents indicated they are most concerned regarding disease outbreak, severe winter weather, and severe weather. Survey respondents identified mitigation projects to improve damage resistance to utilities, improve and strengthen infrastructure, and improve and strengthen critical facilities as being the types of projects that should be completed to reduce damage and disruption caused by natural disasters. The survey results are included at the end of this appendix.

Figure D-1. Distribution of the Citizen Survey Responses





D.2 PUBLIC MEETINGS

All Planning Partnership meetings were open to the public and advertised via the Sussex County’s website and social media platforms.

D.3 STAKEHOLDER SURVEYS

Sussex County distributed online surveys to stakeholders in an effort to gather additional capabilities, vulnerabilities and mitigation projects in the County and region. In order to gather that information during the COVID-19 pandemic, the surveys were sent to the following stakeholders via email: emergency services (law enforcement, firefighters, emergency medical services), transportation agencies and public works, business and commerce, hospitals and health care providers, social services, academia and utilities.

Stakeholder surveys were completed by the Highlands Commission, New Jersey State Park Service, Stillwater Township Emergency Management, Sussex Rural Electric Cooperative, and the Sussex County Fire Marshal’s Office. Results of the surveys are provided at the end of this appendix, with personal information redacted. A summary of entities that the surveys were distributed to, and those that responded may also be found in Section 2 (Planning Process).

Table D-1 summarizes the state, regional and county entities these surveys were directly emailed to. In addition, Steering Committee members and the Planning Partnership were asked to assist with survey distribution. A detailed list of the local organizations the stakeholder surveys were distributed is included in Section 2 (Planning Process).

Table D-1. State, Regional and County Entities Emailed the Stakeholder Survey Directly

Stakeholders Emailed the Surveys		
Municipal OEM Coordinators	New Jersey American Water	Sussex County Tourism
All EMS agencies in Sussex County	Sussex County Municipal Utilities Authority	New Jersey Transit
Sussex County Fire Coordinator	Musconetcong Sewer Authority District	North Jersey Transportation Planning Authority
Sussex County EMS Coordinator	Hardyston Township Municipal Utilities Authority	Skylands Ride Public Transportation
Sussex County Sheriff’s Department	Town of Newton Wastewater Utility	Rutgers University, Office of the State Climatologist
American Red Cross	Aqua NJ – Wallkill (owns Wallkill Sewer Company)	Rutgers University, School of Planning and Public Policy
Newton Medical Hospital	Andover Utility Company Inc.	Rutgers Cooperative Extension Water Resources Program
Sussex Rural Electric Coop	Montague Sewer Company (owned by Utilities Inc.)	Sussex County Community College
PSE&G	Vernon Township Municipal Utilities Authority	New Jersey State Climatologist
JCP&L	Sussex County Chamber of Commerce	Highlands Commission



D.4 WEBSITES, SOCIAL MEDIA AND NEWS ARTICLES

Several methods of outreach were identified to ensure residents and stakeholders were kept apprised of the Sussex County HMP’s planning process. The Sussex County Division of Emergency Management enhanced their mitigation website to have more current information regarding mitigation, which included an ‘Engagement’ page to keep residents apprised of the planning process and public meetings.

Figure D-2. Sussex County HMP Website 1





Figure D-3. Sussex County HMP Website 2



A mitigation brochure was drafted to summarize the plan and answer frequently asked questions regarding an HMP and how to get involved. The following is a screenshot of the one-page brochure posted on the Sussex County’s mitigation website.



Figure D-4. Sussex County Hazard Plan Brochure – Side 1



**Sussex County
Multi-Jurisdictional
Hazard Mitigation
Plan 2021 Update**

What is Hazard Mitigation?

Hazard mitigation is an action to help reduce long-term risks caused by hazards or disasters, such as flooding, severe winter storms, 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 nature-based solutions.

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.

What are the benefits of participating in the hazard Mitigation Plan?

There are numerous benefits to participating in the HMP including:

- Awareness of risk and vulnerabilities
- Identification of implementable strategies and funding sources
- Reduction of hazard impact (save lives, property, the local economy and environment)
- Creation of partnerships and develop comprehensive approaches that enhance project grant funding opportunities.
- Pooling of resources and reduce their level of effort while avoiding duplication of effort.
- Creation of more resilient communities; bounce-back from disasters faster!

Support the Plan!

A public survey is available for Sussex County residents here: <https://www.surveymonkey.com/r/SussexHMP2021>

Please visit the site or scan the QR code and complete the survey to provide valuable information for the planning process.





Figure D-5. Sussex County Hazard Plan Brochure –Side 2

Purpose

The Sussex County Sheriff's Office, Division of Emergency Management 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 plan participants 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 Sussex County include: Dam Failure, Disease Outbreak, Drought, Earthquake, Flood, Geologic Hazard, Hurricane/Tropical Storm, Nor'Easter, Severe Weather, Severe Winter Weather, Wildfire, Hazardous Materials.

The study will focus on existing buildings and potential future development, infrastructure, and critical facilities that might be impacted. Critical facilities include but are not limited to municipal buildings and infrastructure such as power-generation facilities, water utilities, roadways and communication systems.

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.

Planning Process

Phase 1 Planning Process → Phase 2 Risk Assessment → Phase 3 Public Involvement Strategy → Phase 4 Mitigation Strategy → Phase 5 Plan Maintenance → Phase 6 Plan Update and Deliverables → Phase 7 Plan Adoption → Phase 8 Project Management and Construction → Implementation

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.

FAQs

Where can I see the 2021 plan?
Sections of the draft plan will be available in Spring 2021 for download, review and comment on the Sussex County website. In the meantime, the current plan (2016) can be viewed at: <https://www.sussex.nj.us/documents/sheriff/cdm/20160412/2016-Sussex-County-Draft-Plan.pdf>

How can I support the plan?
Take the citizen survey! This will help us obtain input and get a better understanding of citizen preparedness for hazard events. <https://www.surveymonkey.com/r/SussexHMP2021>

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).

For more information about this process please contact:
Sussex County Division of Emergency Management
(973)-579-0380 ext. 2366, or 2208

In October 2020, a StoryMap was released on the County’s mitigation webpage and through social media (Facebook and Twitter) to provide additional information regarding the Sussex County HMP update and serve as another source of risk communication to residents. The Story Map summarizes the planning process, provides links to the citizen and stakeholder surveys and had individual pages for each hazard of concern. The pages for each hazard of concern provide a brief overview of each hazard and hyperlinks to additional resources, when available. For the spatial hazards, residents can dynamically pan a map to view the hazard area relevant to areas in the County. The StoryMap will remain active behind the plan update as a continued form of public engagement:

<https://sussex.maps.arcgis.com/apps/MapSeries/index.html?appid=f42eca01dccd4a67b7fc700437336b05>





Figure D-6. Sussex County StoryMap Home Page

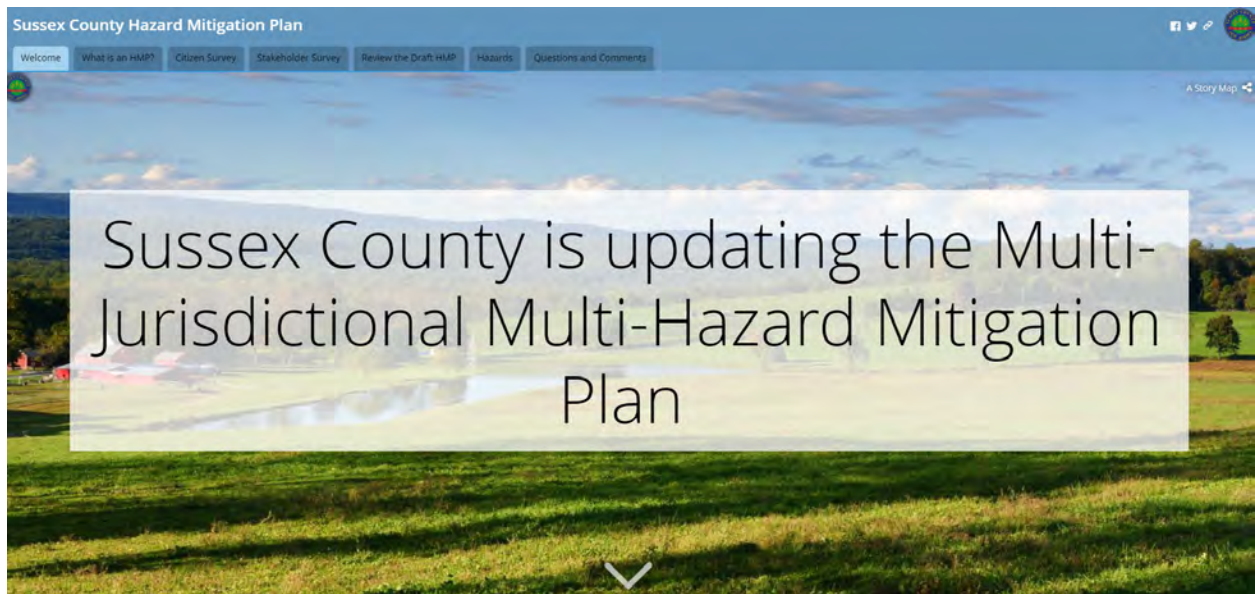


Figure D-7. Sussex County StoryMap Example Hazard Information Page – Dam Failure

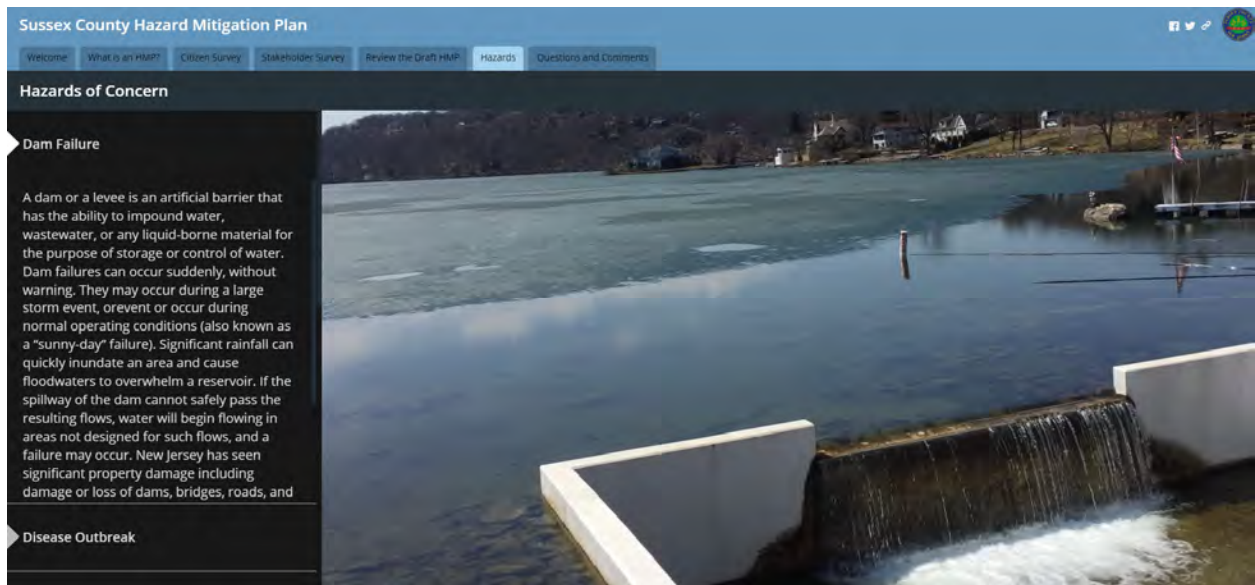




Figure D-8. Sussex County StoryMap Example Interactive Web Map – Flood

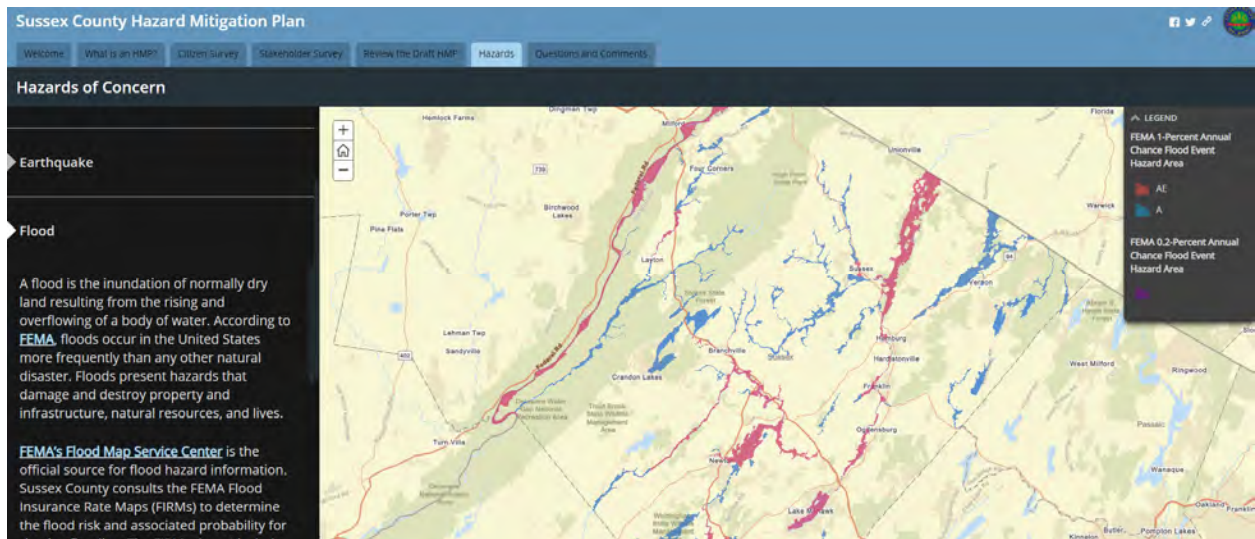
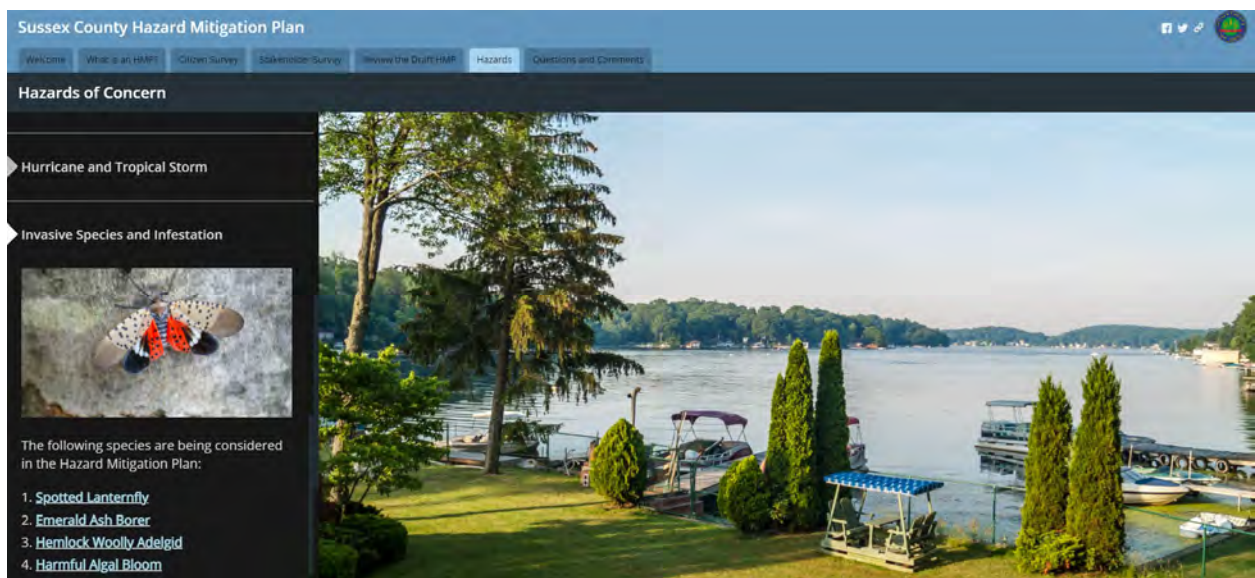


Figure D-9. Sussex County StoryMap – Invasive Species and Infestation





The following posts were issued to social media platforms and municipal websites to announce the plan update, citizen survey, StoryMap launch and draft plan review.

Figure D-10. Borough of Sussex Facebook Post

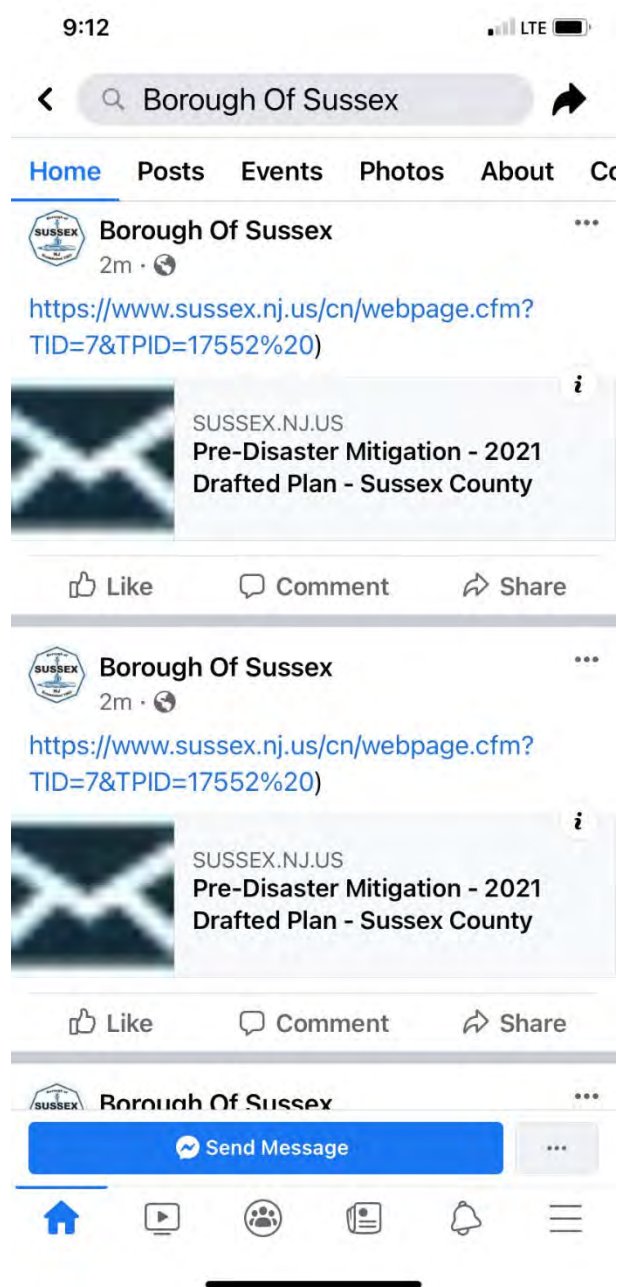




Figure D-11. Borough of Sussex Facebook Post

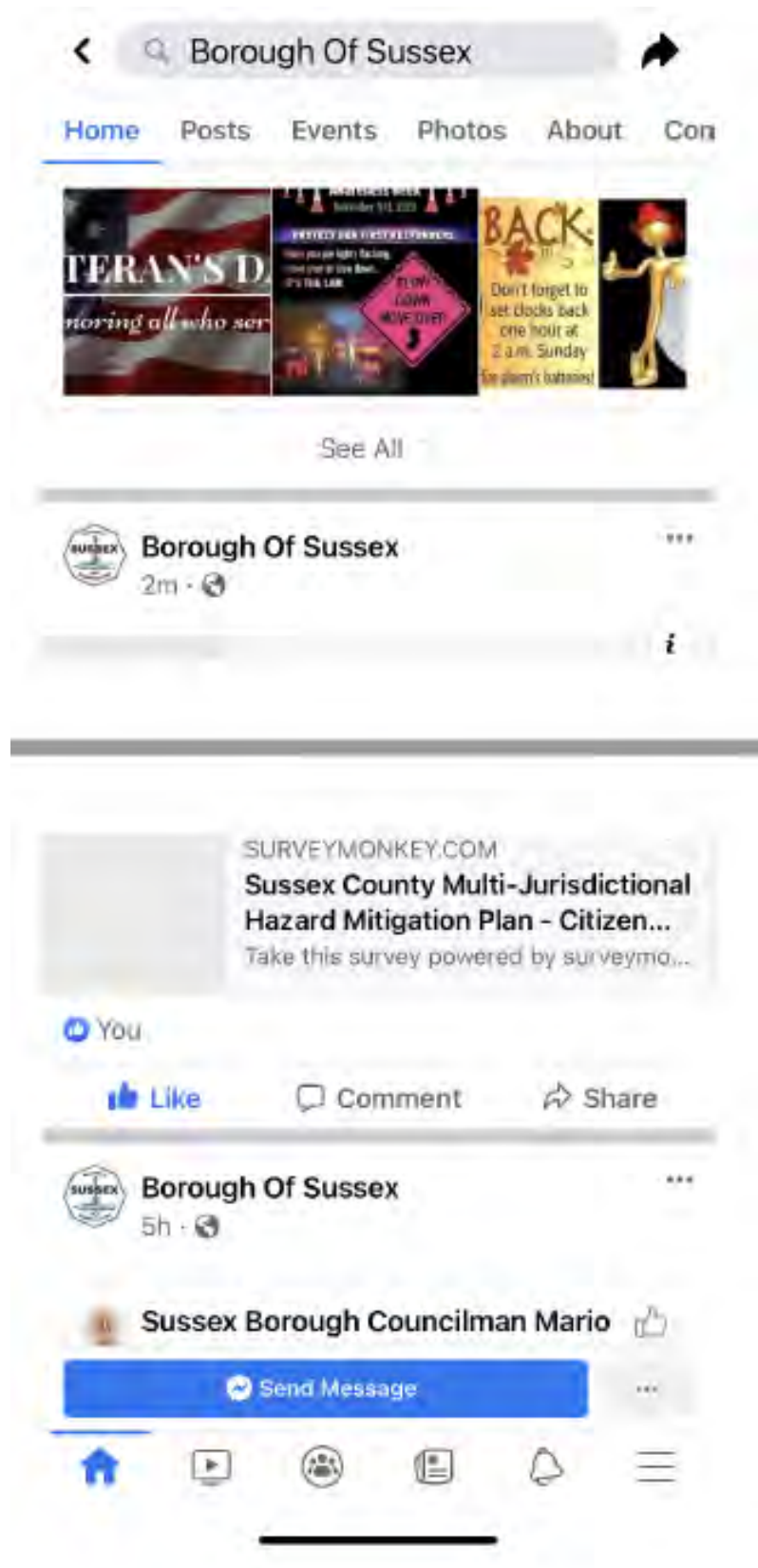


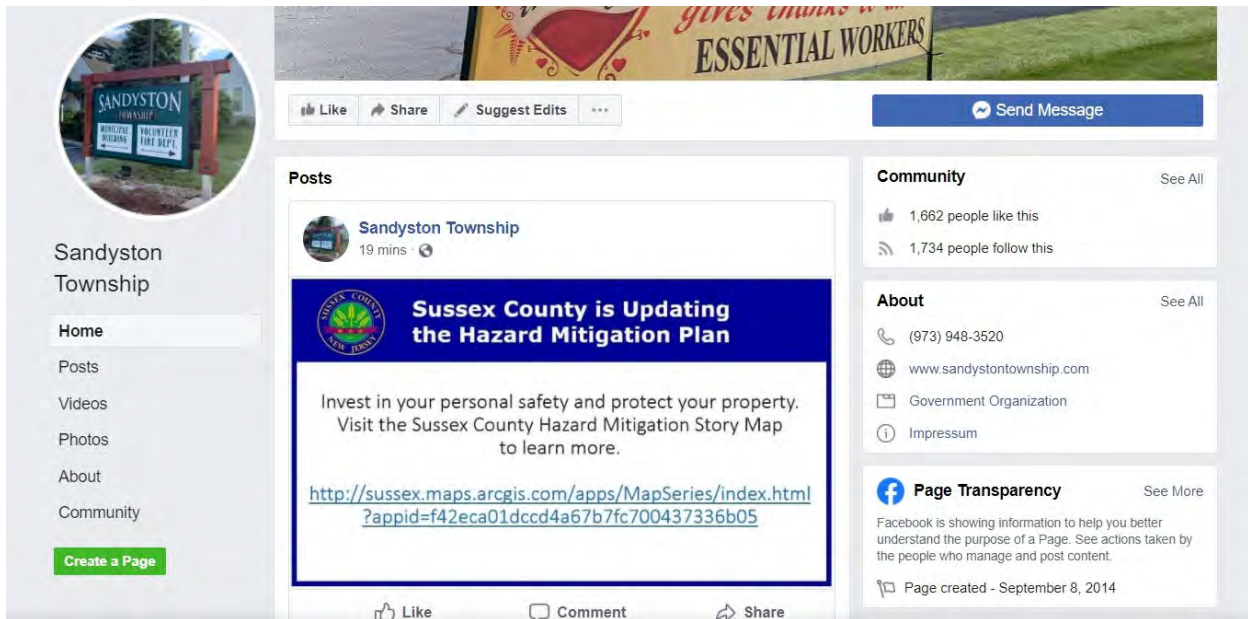


Figure D-12. Stillwater Website Post



The screenshot shows the Stillwater Township website. At the top left is the township's seal, which includes the text "STILLWATER TOWNSHIP" and "SETTLED 1825". To the right of the seal is a navigation menu with links for "HOME", "ABOUT", "GOVERNMENT", and "DEPARTMENTS & SERVICES". The main content area features a large heading: "OEM Chammings is working on Sussex County Multi-Jurisdictional Hazard Mitigation Plan 2021 Update". Below the heading is a paragraph of text explaining hazard mitigation actions. At the bottom of the text is a green link: "click here for more information on the New Jersey All-Hazards Pre-Disaster Mitigation Planning Project".

Figure D-13. Sandyston Facebook Post for StoryMap



The screenshot shows a Facebook post from Sandyston Township. The post includes a profile picture of Sandyston Township, a cover photo of a sign that says "ESSENTIAL WORKERS", and a main post area. The main post area has a blue header with the Sussex County logo and the text "Sussex County is Updating the Hazard Mitigation Plan". Below the header is a white box with the text: "Invest in your personal safety and protect your property. Visit the Sussex County Hazard Mitigation Story Map to learn more." and a blue link: "http://sussex.maps.arcgis.com/apps/MapSeries/index.html?appid=f42eca01dccc4a67b7fc700437336b05". The post also shows engagement options like "Like", "Share", and "Suggest Edits". On the right side of the page, there are sections for "Community" (1,662 likes, 1,734 followers), "About" (phone number, website, and organization type), and "Page Transparency" (created September 8, 2014).



Figure D-14. Newton Emergency Management Twitter Post





Figure D-15. Newton Emergency Management Facebook Post for StoryMap

The screenshot shows a Facebook post from the page 'Newton Emergency Management' (@NewtonOEM). The post is 40 minutes old and contains the following text:

Invest in your personal safety and protect your property. Visit the Sussex County Hazard Mitigation Story Map to learn more.
<http://sussex.maps.arcgis.com/apps/MapSeries/index.html>

Invierta en su seguridad personal y proteja su propiedad. Visite el mapa histórico de mitigación de peligros del condado de Sussex para obtener más información.
<http://sussex.maps.arcgis.com/apps/MapSeries/index.html>

The post features two identical blue banners with the text: "Sussex County is Updating the Hazard Mitigation Plan". Below the banners, the same text and URL are repeated.

The right sidebar of the Facebook post shows a list of pages liked by this page, including: Newton Police (NJ), Newton Fire Department, Town of Newton, Town of Newton Recreation - NJ, Newton Volunteer First Aid & Re..., and Newton Fire Museum.

Figure D-16. Newton Emergency Management Facebook Post for Draft Plan

The screenshot shows a Facebook post from the page 'Newton Emergency Management' (@NewtonOEM). The post is 3 hours old and contains the following text:

Sussex County is updating the countywide Hazard Mitigation Plan. This plan enables participating jurisdictions to continue to be eligible for federal funding to rebuild stronger after disasters have struck. Please visit the website and take the citizen preparedness survey:
<https://www.sussex.nj.us/cn/webpage.cfm?TPID=11091>

Este plan permite que las jurisdicciones participantes sean elegibles para recibir fondos federales para una reconstrucción más firme después de sufrir desastres. Visita el sitio web:
<https://www.sussex.nj.us/cn/webpage.cfm?TPID=11091>

The post features two identical blue banners with the text: "Sussex County is Updating the Hazard Mitigation Plan". Below the banners, the text is repeated, including the URL: <https://www.sussex.nj.us/cn/webpage.cfm?TPID=11091>.

The right sidebar of the Facebook post shows page information: www.NewtonOEM.org, Government Official · Government Organization, Page Transparency (Page created - January 27, 2010), 2,038 likes, and a list of related pages including: Town of Newton, Town of Newton Recreation - NJ, Newton Fire Department, Newton Police (NJ), and Hampton Township Fire & Rescue.



Figure D-17. Sussex County Survey Post

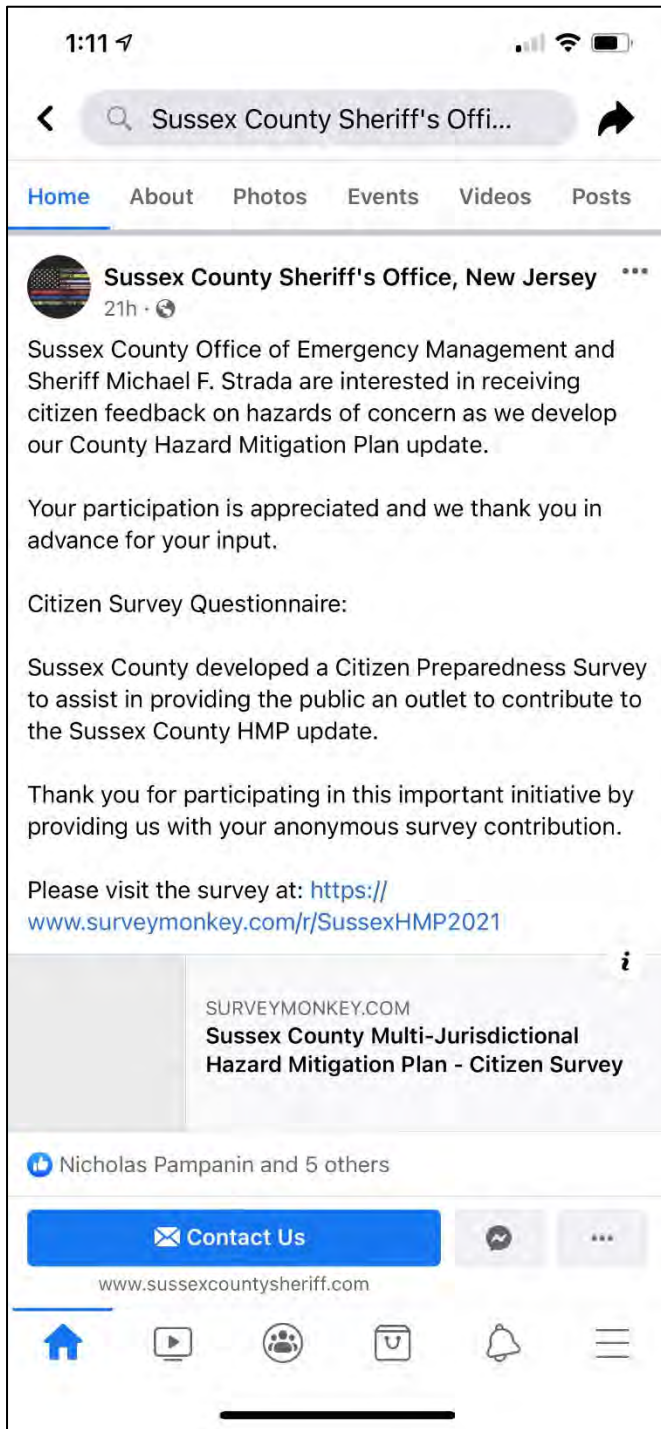








Figure D-18. Township of Byram Draft Plan Post


 **Byram Township Police Department** ⋮
 Apr 9 · 🌐

****Information about the Sussex County Hazard Mitigation Plan****

 **Sussex County is Updating the Hazard Mitigation Plan**


The draft Sussex County Hazard Mitigation Plan is available for public review and questions through May 7, 2021.

To review the draft plan, visit:
<https://www.sussex.nj.us/cn/webpage.cfm?TID=7&TPID=17552%20>

 **Sussex County is Updating the Hazard Mitigation Plan**

El proyecto de Plan de Mitigación de Riesgos del Condado de Sussex está disponible para revisión pública y preguntas hasta el 7 de mayo de 2021.

Visite
<https://www.sussex.nj.us/cn/webpage.cfm?TID=7&TPID=17552%20>

 2




 Like  Comment  Share




Figure D-19. Township of Sandyston Draft Plan Post




The image shows a Facebook post from Sandyston Township. At the top left is the township's profile picture, a circular logo with a building and the text 'SANDYSTON TOWNSHIP'. To its right is the name 'Sandyston Township' and the date 'Apr 5' with a globe icon. The post text reads 'Pre-Disaster Mitigation - 2021 Drafted Plan' followed by 'The draft Sussex County Hazard Mitigation... See More'. Below this is a blue banner with the Sussex County logo on the left and the text 'Sussex County is Updating the Hazard Mitigation Plan' in white. Under the banner, the text says 'The draft Sussex County Hazard Mitigation Plan is available for public review and questions through May 7, 2021.' followed by 'To review the draft plan, visit:' and a blue hyperlink: <https://www.sussex.nj.us/cn/webpage.cfm?TID=7&TPID=17552%20>. At the bottom left of the post is a thumbs-up icon with the number '1'. Below the post are three interaction buttons: 'Like' with a thumbs-up icon, 'Comment' with a speech bubble icon, and 'Share' with a share icon.




Figure D-20. Borough of Sussex Draft Plan Post

 **Borough Of Sussex** Apr 8 · 🌐

[https://www.sussex.nj.us/cn/webpage.cfm?TID=7&TPID=17552%20\)](https://www.sussex.nj.us/cn/webpage.cfm?TID=7&TPID=17552%20))

 SUSSEX.NJ.US
Pre-Disaster Mitigation - 2021 Drafted Plan - Sussex County

 1




 Like  Comment  Share



Figure D-21. Sussex County Draft Plan Post 1

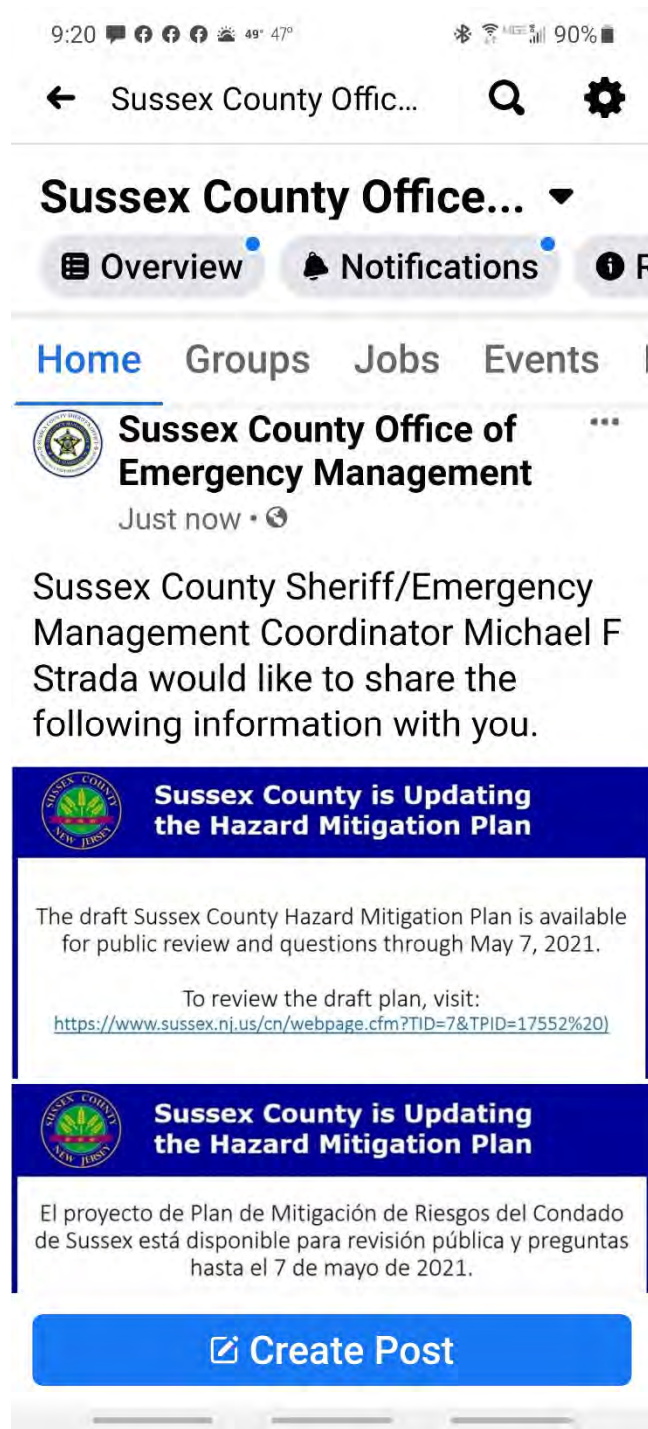




Figure D-22. Sussex County Draft Plan Post 2



D.5 NEIGHBORING COUNTIES AND COMMUNITIES


As discussed in Section 2 (Planning Process), Sussex County has kept surrounding and nearby counties and stakeholders apprised of the project and invited them to participate in the planning process. The following were emailed in August 2020 to inform them of the commencement of the HMP update and requesting their participation. Each neighboring county was invited to all Planning Partnership meetings. In addition, each neighboring county was contacted individually on April 7, 2021 via formal letter and email from the Sussex County Division of Emergency Management to inform them about the draft plan documents and to invite them to provide input.

- Morris County, New Jersey – Morris County Office of Emergency Management
- Morris County, New Jersey – Morris County Planning
- Monroe County, Pennsylvania – Monroe County Emergency Management, Director and Deputy Director
- Passaic County, New Jersey – Passaic County Office of Emergency Management
- Passaic County, New Jersey – Passaic County Planning
- Pike County, Pennsylvania – Pike County Office of Emergency Management
- Pike County, Pennsylvania – Pike County Planning
- Orange County, New York – Orange County Deputy Commissioner
- Sullivan County, New York – Sullivan County Division of Public Safety
- Warren County, New Jersey – Warren County Office of Emergency Management



- Warren County, New Jersey – Warren County Planning Department

Figure D-23. Letter Inviting Morris County OEM to Participate in Planning Process



Sheriff's Office of Sussex County
DIVISION OF EMERGENCY MANAGEMENT

MICHAEL F. STRADA, SHERIFF
EMERGENCY MANAGEMENT COORDINATOR

Robert Haffner Director of Emergency Preparedness		135 Morris Turnpike Newton NJ 07860
Inv. Steven Sugar Deputy Coordinator	Cpl. Jennifer VanDerWende Deputy Coordinator	973-579-0380 973-948-0960 Fax

April 7, 2021

VIA EMAIL: jpaul@co.morris.nj.us
Jeff Paul - OEM
Morris County, NJ

Re: Sussex County Hazard Mitigation Plan –
2021 Update

To Whom It May Concern:

Sussex County is updating our Hazard Mitigation Plan to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The purpose of this plan is to identify vulnerabilities to a variety of hazards, and to develop plans to help minimize losses if disasters should occur. The intent of the plan is to provide a comprehensive document that considers the wide diversity of communities, businesses, and services that are an integral part of Sussex County and the region as a whole. In addition to its value as a hazard mitigation plan, the development of this document is also required under the DMA 2000 to ensure eligibility for federal mitigation funding.

Due to your proximity to Sussex County, the effects of many of these disasters would be similar in your county 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).


Presently, our draft plan is now in a public review period prior to submission to FEMA for approval. By means of this letter, Sussex County is seeking your participation in this important planning effort. Specifically, we encourage interested neighboring community representatives to become familiar with this process by reviewing and providing input on the draft and final plan documents by visiting our HMP website: <https://www.sussex.nj.us/cn/webpage.cfm?TID=7&TPID=17552%20>

Any questions or comments regarding the plan can be made directly to our Office of Emergency Management at: Jennifer Van Der Wende, jenvanderwende@sussexcountysheriff.com or (973) 579-0380 x2366.

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Figure D-24. Letter Inviting Morris County Planning to Participate in Planning Process



Sheriff's Office of Sussex County
 DIVISION OF EMERGENCY MANAGEMENT

MICHAEL F. STRADA, SHERIFF
 EMERGENCY MANAGEMENT COORDINATOR

Robert Haffner
 Director of Emergency Preparedness

Inr. Steven Sugar
 Deputy Coordinator

Cpl. Jennifer VanDerWende
 Deputy Coordinator

135 Morris Turnpike
 Newton NJ 07860
 973-579-0380
 973-948-0960 Fax

April 7, 2021

VIA EMAIL: jbarilla@co.morris.nj.us
 Joe Barilla - Planning
 Morris County, NJ

Re: Sussex County Hazard Mitigation Plan –
 2021 Update

To Whom It May Concern:

Sussex County is updating our Hazard Mitigation Plan to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The purpose of this plan is to identify vulnerabilities to a variety of hazards, and to develop plans to help minimize losses if disasters should occur. The intent of the plan is to provide a comprehensive document that considers the wide diversity of communities, businesses, and services that are an integral part of Sussex County and the region as a whole. In addition to its value as a hazard mitigation plan, the development of this document is also required under the DMA 2000 to ensure eligibility for federal mitigation funding.

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Any questions or comments regarding the plan can be made directly to our Office of Emergency Management at: Jennifer Van Der Wende, jenvanderwende@sussexcountysheriff.com or (973) 579-0380 x2366.

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Figure D-25. Letter Inviting Monroe County OEM Director to Participate in Planning Process



Sheriff's Office of Sussex County
DIVISION OF EMERGENCY MANAGEMENT

MICHAEL F. STRADA, SHERIFF
EMERGENCY MANAGEMENT COORDINATOR

Robert Haffner
Director of Emergency Preparedness

Inv. Steven Sugar
Deputy Coordinator

Cpl. Jennifer VanDerWende
Deputy Coordinator

135 Morris Turnpike
Newton NJ 07860
973-579-0380
973-948-0960 Fax

April 7, 2021

VIA EMAIL: mkeegan@monroecountypa.gov
Director – Emergency Management
Monroe County, PA

Re: Sussex County Hazard Mitigation Plan –
2021 Update

To Whom It May Concern:

Sussex County is updating our Hazard Mitigation Plan to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The purpose of this plan is to identify vulnerabilities to a variety of hazards, and to develop plans to help minimize losses if disasters should occur. The intent of the plan is to provide a comprehensive document that considers the wide diversity of communities, businesses, and services that are an integral part of Sussex County and the region as a whole. In addition to its value as a hazard mitigation plan, the development of this document is also required under the DMA 2000 to ensure eligibility for federal mitigation funding.

Due to your proximity to Sussex County, the effects of many of these disasters would be similar in your county 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).


Presently, our draft plan is now in a public review period prior to submission to FEMA for approval. By means of this letter, Sussex County is seeking your participation in this important planning effort. Specifically, we encourage interested neighboring community representatives to become familiar with this process by reviewing and providing input on the draft and final plan documents by visiting our HMP website: <https://www.sussex.nj.us/cn/webpage.cfm?TID=7&TPID=17552%20>

Any questions or comments regarding the plan can be made directly to our Office of Emergency Management at: Jennifer Van Der Wende, jenvandervende@sussexcountysheriff.com or (973) 579-0380 x2366.

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Figure D-26. Letter Inviting Monroe County OEM Deputy Director to Participate in Planning Process



Sheriff's Office of Sussex County
DIVISION OF EMERGENCY MANAGEMENT

MICHAEL F. STRADA, SHERIFF
EMERGENCY MANAGEMENT COORDINATOR

Robert Haffner
Director of Emergency Preparedness

135 Morris Turnpike
Newton NJ 07860
973-579-0380
973-948-0960 Fax

Inv. Steven Sugar Cpl. Jennifer VanDerWende
Deputy Coordinator Deputy Coordinator

April 7, 2021

VIA EMAIL: bharrison@monroecountypa.gov
Brad Harrison, Deputy Director
Monroe County, PA

Re: Sussex County Hazard Mitigation Plan –
2021 Update

To Whom It May Concern:

Sussex County is updating our Hazard Mitigation Plan to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The purpose of this plan is to identify vulnerabilities to a variety of hazards, and to develop plans to help minimize losses if disasters should occur. The intent of the plan is to provide a comprehensive document that considers the wide diversity of communities, businesses, and services that are an integral part of Sussex County and the region as a whole. In addition to its value as a hazard mitigation plan, the development of this document is also required under the DMA 2000 to ensure eligibility for federal mitigation funding.

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Presently, our draft plan is now in a public review period prior to submission to FEMA for approval. By means of this letter, Sussex County is seeking your participation in this important planning effort. Specifically, we encourage interested neighboring community representatives to become familiar with this process by reviewing and providing input on the draft and final plan documents by visiting our HMP website: <https://www.sussex.nj.us/cn/webpage.cfm?TID=7&TPID=17552%20>

Any questions or comments regarding the plan can be made directly to our Office of Emergency Management at: Jennifer Van Der Wende, jenvanderwende@sussexcountysheriff.com or (973) 579-0380 x2366.

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Figure D-27. Letter Inviting Orange County Deputy Commissioner to Participate in Planning Process



Sheriff's Office of Sussex County
DIVISION OF EMERGENCY MANAGEMENT

MICHAEL F. STRADA, SHERIFF
EMERGENCY MANAGEMENT COORDINATOR

Robert Haffner
 Director of Emergency Preparedness

Inv. Steven Sugar
 Deputy Coordinator

Cpl. Jennifer VanDerWende
 Deputy Coordinator

135 Morris Turnpike
 Newton NJ 07860
 973-579-0380
 973-948-0960 Fax

April 7, 2021

VIA EMAIL: amack@orangecountygov.com
 Alan Mack, Deputy Commissioner
 Orange County, NY

Re: Sussex County Hazard Mitigation Plan –
 2021 Update

To Whom It May Concern:

Sussex County is updating our Hazard Mitigation Plan to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The purpose of this plan is to identify vulnerabilities to a variety of hazards, and to develop plans to help minimize losses if disasters should occur. The intent of the plan is to provide a comprehensive document that considers the wide diversity of communities, businesses, and services that are an integral part of Sussex County and the region as a whole. In addition to its value as a hazard mitigation plan, the development of this document is also required under the DMA 2000 to ensure eligibility for federal mitigation funding.

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Presently, our draft plan is now in a public review period prior to submission to FEMA for approval. By means of this letter, Sussex County is seeking your participation in this important planning effort. Specifically, we encourage interested neighboring community representatives to become familiar with this process by reviewing and providing input on the draft and final plan documents by visiting our HMP website: <https://www.sussex.nj.us/cn/webpage.cfm?TID=7&TPID=17552%20>

Any questions or comments regarding the plan can be made directly to our Office of Emergency Management at: Jennifer Van Der Wende, jenvanderwende@sussexcountysheriff.com or (973) 579-0380 x2366.

Visit our website at WWW.sussexcountysheriff.com
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Figure D-28. Letter Inviting Passaic County OEM to Participate in Planning Process

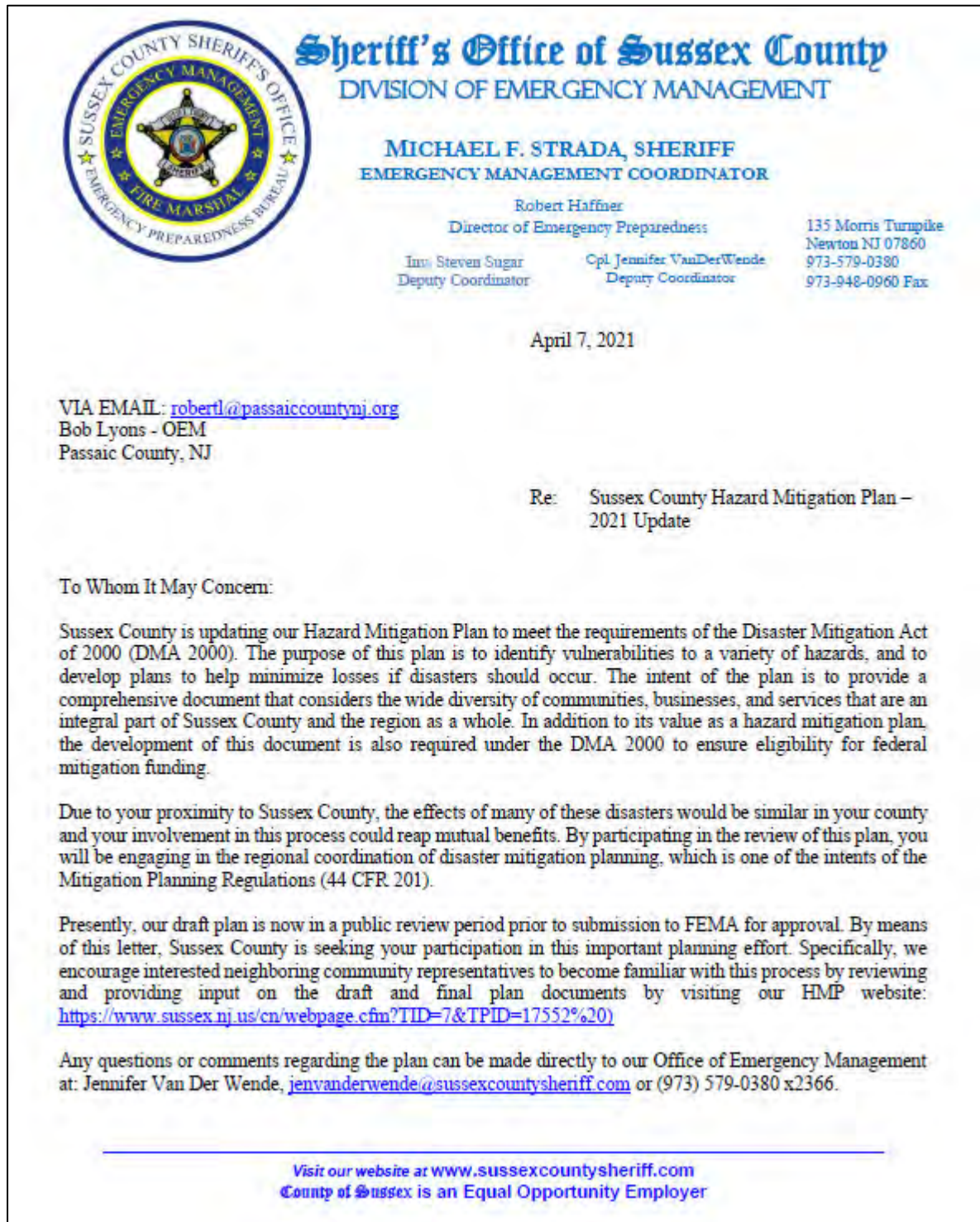





Figure D-29. Letter Inviting Passaic County Planning to Participate in Planning Process



Sheriff's Office of Sussex County
DIVISION OF EMERGENCY MANAGEMENT

MICHAEL F. STRADA, SHERIFF
EMERGENCY MANAGEMENT COORDINATOR

Robert Haffner
Director of Emergency Preparedness

Iny. Steven Sugar Cpl. Jennifer VanDerWende
Deputy Coordinator Deputy Coordinator

135 Morris Turnpike
Newton NJ 07860
973-579-0380
973-948-0960 Fax

April 7, 2021

VIA EMAIL: mlysicatos@passaiccountynj.org
Mike Lysicatos - Planning
Passaic County, NJ

Re: Sussex County Hazard Mitigation Plan –
 2021 Update

To Whom It May Concern:

Sussex County is updating our Hazard Mitigation Plan to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The purpose of this plan is to identify vulnerabilities to a variety of hazards, and to develop plans to help minimize losses if disasters should occur. The intent of the plan is to provide a comprehensive document that considers the wide diversity of communities, businesses, and services that are an integral part of Sussex County and the region as a whole. In addition to its value as a hazard mitigation plan, the development of this document is also required under the DMA 2000 to ensure eligibility for federal mitigation funding.

Due to your proximity to Sussex County, the effects of many of these disasters would be similar in your county 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).

Presently, our draft plan is now in a public review period prior to submission to FEMA for approval. By means of this letter, Sussex County is seeking your participation in this important planning effort. Specifically, we encourage interested neighboring community representatives to become familiar with this process by reviewing and providing input on the draft and final plan documents by visiting our HMP website: <https://www.sussex.nj.us/cn/webpage.cfm?TID=7&TPID=17552%20>

Any questions or comments regarding the plan can be made directly to our Office of Emergency Management at: Jennifer Van Der Wende, jenvanderwende@sussexcountysheriff.com or (973) 579-0380 x2366.

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Figure D-30. Letter Inviting Pike County OEM to Participate in Planning Process

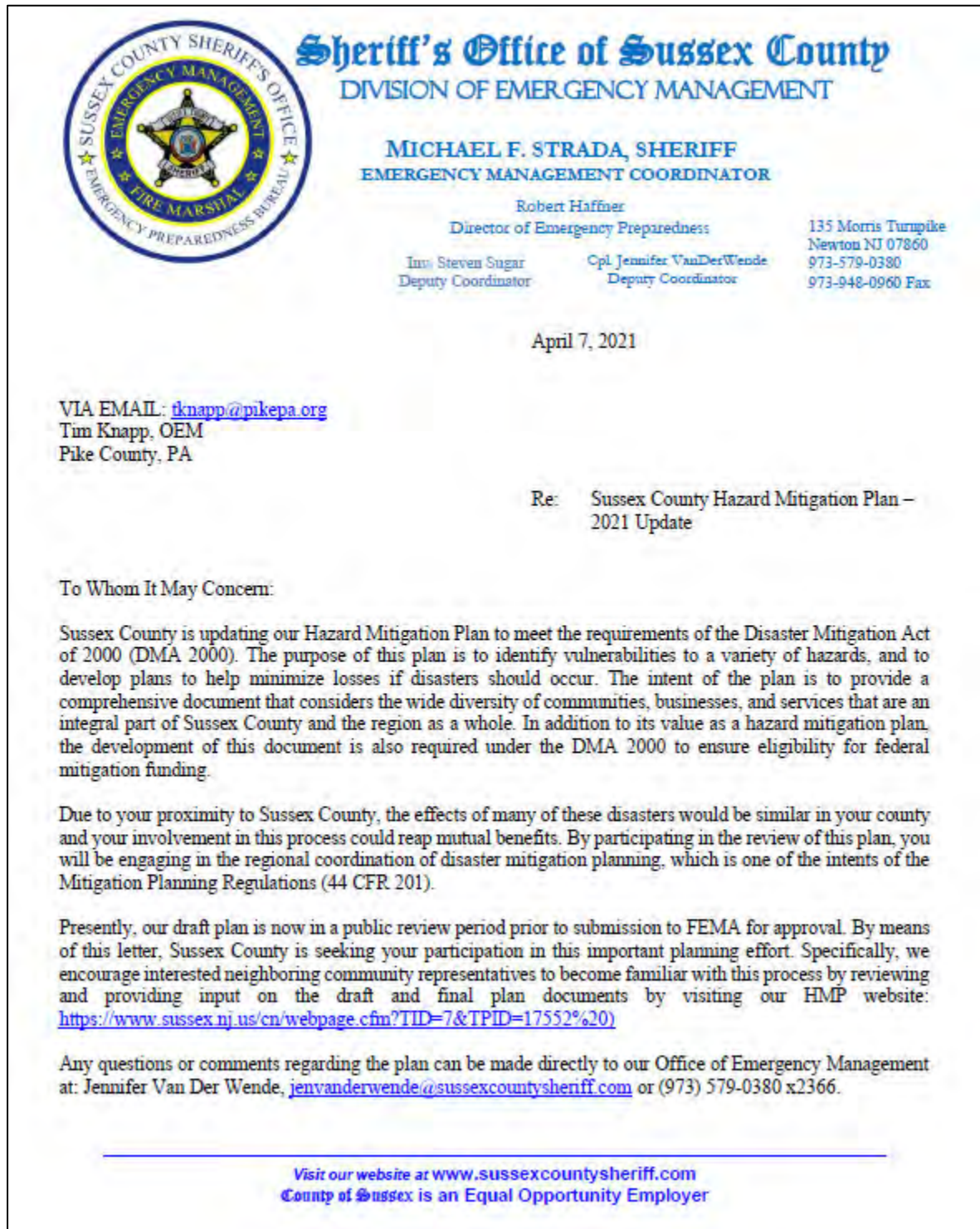





Figure D-31. Letter Inviting Pike County Planning to Participate in Planning Process



Sheriff's Office of Sussex County
DIVISION OF EMERGENCY MANAGEMENT

MICHAEL F. STRADA, SHERIFF
EMERGENCY MANAGEMENT COORDINATOR

Robert Haffner
Director of Emergency Preparedness

135 Morris Turnpike
Newton NJ 07860
973-579-0380
973-948-0960 Fax

Inv. Steven Sugar
Deputy Coordinator

Cpl. Jennifer VanDerWende
Deputy Coordinator

April 7, 2021

VIA EMAIL: mmrozinski@pikepa.org
Mike Mrozinski - Director Planning
Pike County, PA

Re: Sussex County Hazard Mitigation Plan –
2021 Update

To Whom It May Concern:

Sussex County is updating our Hazard Mitigation Plan to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The purpose of this plan is to identify vulnerabilities to a variety of hazards, and to develop plans to help minimize losses if disasters should occur. The intent of the plan is to provide a comprehensive document that considers the wide diversity of communities, businesses, and services that are an integral part of Sussex County and the region as a whole. In addition to its value as a hazard mitigation plan, the development of this document is also required under the DMA 2000 to ensure eligibility for federal mitigation funding.

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Figure D-32. Letter Inviting Sullivan County Division of Public Safety to Participate in Planning Process



Sheriff's Office of Sussex County
DIVISION OF EMERGENCY MANAGEMENT

MICHAEL F. STRADA, SHERIFF
EMERGENCY MANAGEMENT COORDINATOR

Robert Haffner
 Director of Emergency Preparedness

Inv. Steven Sugar Cpl. Jennifer VanDerWende
 Deputy Coordinator Deputy Coordinator

135 Morris Turnpike
 Newton NJ 07860
 973-579-0380
 973-948-0960 Fax

April 7, 2021

Rick Sauer, Commissioner of Public Safety
 Division of Public Safety
 County Government Center
 100 North Street, PO Box 5012
 Monticello, NY 12701

Re: Sussex County Hazard Mitigation Plan –
 2021 Update

To Whom It May Concern:

Sussex County is updating our Hazard Mitigation Plan to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The purpose of this plan is to identify vulnerabilities to a variety of hazards, and to develop plans to help minimize losses if disasters should occur. The intent of the plan is to provide a comprehensive document that considers the wide diversity of communities, businesses, and services that are an integral part of Sussex County and the region as a whole. In addition to its value as a hazard mitigation plan, the development of this document is also required under the DMA 2000 to ensure eligibility for federal mitigation funding.

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Any questions or comments regarding the plan can be made directly to our Office of Emergency Management at: Jennifer Van Der Wende, jenvanderwende@sussexcountysheriff.com or (973) 579-0380 x2366.

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Figure D-33. Letter Inviting Warren County OEM to Participate in Planning Process



Sheriff's Office of Sussex County
DIVISION OF EMERGENCY MANAGEMENT

MICHAEL F. STRADA, SHERIFF
EMERGENCY MANAGEMENT COORDINATOR

Robert Häffner
 Director of Emergency Preparedness

Inv: Steven Sugar Cpl. Jennifer VanDerWende
 Deputy Coordinator Deputy Coordinator

135 Morris Turnpike
 Newton NJ 07860
 973-579-0380
 973-948-0960 Fax

April 7, 2021

VIA EMAIL: fwheatley@co.warren.nj.us
 Frank Wheatley - OEM
 Warren County, NJ

Re: Sussex County Hazard Mitigation Plan –
 2021 Update

To Whom It May Concern:

Sussex County is updating our Hazard Mitigation Plan to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The purpose of this plan is to identify vulnerabilities to a variety of hazards, and to develop plans to help minimize losses if disasters should occur. The intent of the plan is to provide a comprehensive document that considers the wide diversity of communities, businesses, and services that are an integral part of Sussex County and the region as a whole. In addition to its value as a hazard mitigation plan, the development of this document is also required under the DMA 2000 to ensure eligibility for federal mitigation funding.

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Any questions or comments regarding the plan can be made directly to our Office of Emergency Management at: Jennifer Van Der Wende, jenvanderwende@sussexcountysheriff.com or (973) 579-0380 x2366.

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Figure D-34. Letter Inviting Warren County Planning to Participate in Planning Process



Sheriff's Office of Sussex County
DIVISION OF EMERGENCY MANAGEMENT

MICHAEL F. STRADA, SHERIFF
EMERGENCY MANAGEMENT COORDINATOR

Robert Haffner
 Director of Emergency Preparedness 135 Morris Turnpike
 Newton NJ 07860
 973-579-0380
 973-948-0960 Fax

Inv. Steven Sugar Cpl. Jennifer VanDerWende
 Deputy Coordinator Deputy Coordinator

April 7, 2021

VIA EMAIL: planningdept@co.warren.nj.us
 Planning Department
 Warren County, NJ

Re: Sussex County Hazard Mitigation Plan –
 2021 Update

To Whom It May Concern:

Sussex County is updating our Hazard Mitigation Plan to meet the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). The purpose of this plan is to identify vulnerabilities to a variety of hazards, and to develop plans to help minimize losses if disasters should occur. The intent of the plan is to provide a comprehensive document that considers the wide diversity of communities, businesses, and services that are an integral part of Sussex County and the region as a whole. In addition to its value as a hazard mitigation plan, the development of this document is also required under the DMA 2000 to ensure eligibility for federal mitigation funding.

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APPENDIX E. RISK ASSESSMENT SUPPLEMENT

This appendix contains supporting information for the Risk Assessment (Section 4) as available. It contains excerpts of the previous events and losses as presented in the 2016 HMP, organized by hazard of concern. This information has been compiled into one appendix for ease of reference; however, it has not been updated and is reproduced as documented in the 2016 plan.

In order to create a more streamlined plan, the 2021 HMP was reorganized and condensed into a practical and more readable document for the public with the goal of providing a plan easier to implement for the County and all municipalities to support future risk reduction. The information in this appendix supplements the information provided in Section 4.3 of this plan.

E.1 CRITICAL FACILITIES AND LIFELINES

The identification of community lifelines across Sussex County provides an enhancement to the 2021 HMP.

FEMA defines a lifeline as: *“providing indispensable service that enables the continuous operation of critical business and government functions, and is critical to human health and safety, or economic security.”* Identifying community lifelines will help government officials and stakeholders to prioritize, sequence, and focus response efforts towards maintaining or restoring the most critical services and infrastructure within their respective jurisdiction(s). Identifying potential impacts to lifelines can help to inform the planning process and determining priorities in the event an emergency occur. The following page is FEMA’s factsheet that describes lifelines further.



A lifeline provides indispensable service that enables the continuous operation of critical business and government functions, and is critical to human health and safety, or economic security.

Why a lifelines construct?

Decision-makers must rapidly determine the scope, complexity, and interdependent impacts of a disaster. Applying the lifelines construct allows decision-makers to:

- Prioritize, sequence, and focus response efforts towards maintaining or restoring the most critical services and infrastructure
- Utilize a common lexicon to facilitate unity of purpose across all stakeholders
- Promote a response that facilitates unity of purpose and better communication amongst the whole community (Federal, state, tribal, territorial, and local governments, and private sector and non-governmental entities)
- Clarify which components of the disaster are complex (multifaceted) and/or complicated (difficult), requiring cross-sector coordination

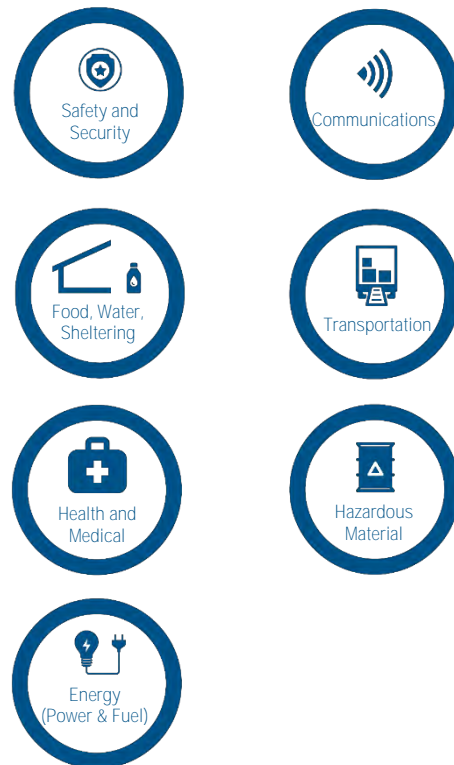
How will lifelines be used?

- Enhance the ability to gain, maintain, and communicate situational awareness for the whole community in responding to disasters
- Analyze impacts to the various lifelines and develop priority focus areas for each operational period during response
- Identify and communicate complex interdependencies to identify major limiting factors hindering stabilization
- Update the National Response Framework to reflect use of lifelines in response planning

What are the opportunities of lifelines?

- Enable a true unity of effort between government, non-governmental organizations, and the private sector, including infrastructure owners and operators
- Integrate preparedness efforts, existing plans, and identify unmet needs to better anticipate response requirements
- Refine reporting sources and products to enhance situational awareness, best determine capability gaps, and demonstrate progress towards stabilization

Lifelines



Visit us at <http://www.fema.gov/national-planning-frameworks>



E.2 HISTORY OF HAZARD EVENTS IN THE COUNTY

To supplement the information provided in this plan, events documented in the 2016 HMP are included below by hazard of concern. The previous events and losses listed were directly carried over from the 2016 HMP and reflects events identified from 2008 to 2015. With many sources reviewed for the purpose of this HMP, loss and impact information for events could vary depending on the source. Therefore, the accuracy of monetary figures discussed is based only on the available information identified during research for this HMP.

E.2.1 Dam Failure Events

Table E-1. Dam Failures in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
There have been no recorded instances of dam failures since 2008 in Sussex County.				

E.2.2 Drought

Table E-2. Drought Incidents in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
February 2009	Drought Indicator	N/A	N/A	The NJ State Climatologist records indicate this year is one of the top 5 on record for lowest amounts of precipitation in the month of February since 1893. The recorded amount was 0.74 inches.
June 1 to September 30, 2010	Drought	N/A	NA	The New Jersey Herald issued an article that aid was being made available to all farmers affected by the summer drought. In addition, Sussex County, along with 15 other counties in the state were listed as natural disaster areas.
July 7, 2010	Drought	N/A	N/A	The New Jersey Herald issued an article urging residents to conserve water.
September 8, 2010	Drought	N/A	N/A	The New Jersey Herald issued an article notifying residents of a drought watch in the State.
September 1-30, 2010	Drought	N/A	N/A	September was another unseasonably warm month in New Jersey. Statewide it was the 4th warmest September on record since 1895 with an average temperature of 69.2°F. Because of the heavy rain on the last day of the month, September averaged closer to normal rainfall. It was the 7th warmest (71.0°F) September on record at the Atlantic City International Airport and the warm season as a whole



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				established a new record for the number of days that the maximum temperature reached or exceeded 90°F(46 days). The NJDEP issued a drought watch for the entire state on September 8th. The NJDEP asked all state residents to voluntarily conserve water. The hot and dry summer taxed reservoir stream and groundwater levels. Shallow groundwater (private) wells were also starting to show stress.
October 1-26, 2010	Drought	N/A	N/A	<p>The wet weather on September 30th and October 1st started to recharge water supplies in the state of New Jersey. On October 26th, the NJDEP cancelled the drought watch for most of the state, except for Monmouth and Ocean Counties. Despite improvements elsewhere, conditions in those counties showed that the combination of reservoir storage remained below the long-term average and severely dry and shallow ground water levels were still occurring.</p> <p>The summer drought took its toll on New Jersey farmers and the United States Secretary of Agriculture Thomas Vilsack declared all counties in southern, central and northwest New Jersey natural disaster areas in November. The declaration made farm operators eligible for assistance from the Farm Service Agency. The assistance included low interest loans which could cover up to 100 percent of the dollar value of the crop losses.</p> <p>The statewide October monthly precipitation average for New Jersey was 4.88 inches, about one hundred forty percent of normal and 1.37 inches wetter than average.</p>
February 2012	Drought Indicator	N/A	N/A	The NJ State Climatologist records indicate this year is one of the top 5 on record for lowest amounts of precipitation in the month of February since 1893. The recorded amount was 0.97 inches.
March 2012	Drought Indicator	N/A	N/A	The NJ State Climatologist records indicate this year is one of the top 5 on record for lowest amounts of precipitation in the month of March since 1893. The recorded amount was 1.37 inches.
April 4, 2012	Drought	N/A	N/A	The New Jersey Herald issued an article warning residents that dry conditions had heightened the wildfire alert level.
June 2, 2012	Drought	N/A	N/A	USDA 2012 Disaster Designation issued for Sussex County. No damages were listed. No end date to the event was listed.
August 15, 2014	Drought	N/A	N/A	USDA 2012 Disaster Designation issued for Sussex County. No damages were listed. No end date to the event was listed.
May 2015	Drought Indicator	N/A	N/A	The NJ State Climatologist records indicate this year is one of the top 5 on record for lowest amounts of precipitation in the month of May since 1893. The recorded amount was 0.93 inches.

Source: NOAA-NCDC 2015; FEMA 2015; Drought Reporter – University of Nebraska-Lincoln 2015
 FEMA Federal Emergency Management Agency





NCDC National Climatic Data Center
 NJDEP New Jersey Department of Environmental Protection
 NOAA National Oceanic and Atmospheric Administration

E.2.3 Earthquake

Table E-1. Earthquake Events Impacting Sussex County, 2008 to 2015

Date(s) of Event	Event Type (magnitude)	FEMA Declaration Number (if applicable)	Sussex County Designated?	Location	Description
February 2, 2009	Earthquake (3.0)	N/A	N/A	40.870°N, 74.522°W Victory Gardens, NJ	The earthquake occurred at 10:34:19 p.m. at the epicenter, at a depth of 5 km (3.1 miles). There is a horizontal location uncertainty of +/- 0.4 km (0.2 miles). The earthquake was reported by the Lamont-Doherty Cooperative Seismographic Network. It was also reported by 1,126 people in 153 ZIP codes. There was no documentation of impacts or damages to the County from this event.
February 3, 2009	Earthquake (3.0)	N/A	N/A	40.870°N, 74.522°W Rockaway, NJ	This earthquake occurred at 3:34:19, with a depth of 5 km. Its epicenter was 3.5 km SSW of Rockaway, NJ (Morris County). There was no documentation of impacts or damages to the County from this event.
February 14, 2009	Earthquake (2.4)	N/A	N/A	40.9483°N, 74.3922°W Near Rockaway Valley and Montville, NJ	This earthquake had a depth of 2 km, and it occurred at 17:22:22. It was reported by 97 people in 26 ZIP codes, with a maximum intensity of light. There was no documentation of impacts or damages to the County from this event.
February 16, 2009	Earthquake (2.3)	N/A	N/A	40.868°N, 74.551°W Dover, NJ	This earthquake occurred at 6:42:35, with a depth of 4 km. Its epicenter was 2 km SSE of Dover, NJ (Morris County). There was no documentation of impacts or damages to the County from this event.
February 18, 2009	Earthquake (1.1)	N/A	N/A	40.963°N, 74.389°W Kinnelon, NJ	This earthquake occurred at 18:17:55, with a depth of 2 km. Its epicenter was 3 km SSW of Kinnelon, NJ (Morris County). There was no documentation of impacts or damages to the County from this event.
February 18, 2009	Earthquake (2.3)	N/A	N/A	40.8678°N, 74.5507°W	This earthquake had a depth of 4 km, and it occurred at 01:42:35. It was reported by 63 people in 23 ZIP codes, and it had a maximum intensity of





				Victory Gardens, NJ	<p>weak.</p> <p>There was no documentation of impacts or damages to the County from this event.</p>
December 26, 2009	Earthquake (2.0)	N/A	N/A	40.878°N, 74.550°W Morris Plains, NJ	<p>This earthquake had a depth of 6 km, and it occurred at 23:53:14. Its epicenter was 8 km NW of Morris Plains, NJ (Morris County). It was reported by 31 people in 14 ZIP codes, and it had a maximum intensity of weak.</p> <p>There was no documentation of impacts or damages to the County from this event.</p>
February 9, 2010	Earthquake (2.2)	N/A	N/A	41.0328°N, 74.3032°W	<p>This earthquake occurred at 20:17:31, with a depth of 7km.</p> <p>There was no documentation of impacts or damages to the County from this event.</p>
February 10, 2010	Earthquake (2.2)	N/A	N/A	41.038°N, 74.305°W Wanaque, NJ	<p>This earthquake had a depth of 4 km, and it occurred at 01:17:30. Its epicenter was 1 km W of Wanaque, NJ (Passaic County).</p> <p>There was no documentation of impacts or damages to the County from this event.</p>
February 21, 2010	Earthquake (2.6)	N/A	N/A	40.717°N, 74.6578°W	<p>This earthquake had a depth of 5 km, and it occurred at 08:59:25. It was reported by 870 people in 83 ZIP codes, and it had a maximum intensity of light.</p> <p>There was no documentation of impacts or damages to the County from this event.</p>
February 21, 2010	Earthquake (2.3)	N/A	N/A	40.7142°N, 74.68°W	<p>This earthquake occurred at 12:31:57, with a depth of 5 km. It was reported by 150 people in 40 ZIP codes, with a maximum intensity of light.</p> <p>There was no documentation of impacts or damages to the County from this event.</p>
December 25, 2010	Earthquake (2.1)	N/A	N/A	40.859°N, 74.179°W Clifton, NJ	<p>This earthquake had a depth of 2 km, and it occurred at 18:32:31. Its epicenter was 1 km W of Clifton, NJ (Passaic County).</p> <p>There was no documentation of impacts or damages to the County from this event.</p>
May 5, 2011	Earthquake (1.2)	N/A	N/A	40.854°N, 74.170°W Clifton, NJ	<p>This earthquake had a depth of 5.6 km, and it occurred at 12:32:00. Its epicenter was 1.2 km W of Clifton, NJ (Passaic County).</p> <p>There was no documentation of impacts or damages to the County from this event.</p>
August 23, 2011	Earthquake (5.9)	DR-4042	N/A	State of Virginia	<p>A moderate earthquake occurred in central Virginia and was felt throughout most of the east, from Georgia to southern Canada and from Indiana to coastal Maine. It was followed by four aftershocks.</p>



					In New Jersey, the intensity ranged from 1 to 4 (weak to light). Areas underlain by thick silt and clay felt a stronger ground motion than did those where rock was very close to the surface. There was minor scattered power outages reported throughout the State. There was no documentation of impacts or damages to the County from this event.
July 17, 2012	Earthquake (1.1)	N/A	N/A	40.892°N, 74.570°W Morristown, NJ	This earthquake's epicenter is 16 km NW of Morristown, NJ (Morris County), and it had a depth of 2 km. It occurred at 2:25:45. There was no documentation of impacts or damages to the County from this event.
July 18, 2012	Earthquake (1.1)	N/A	N/A	40.899°N, 74.588°W Morristown, NJ	This earthquake's epicenter was 18 km MW of Morristown, NJ (Morris County), and it had a depth of 2 km. It occurred at 8:94:10. There was no documentation of impacts or damages to the County from this event.
August 23, 2012	Earthquake (1.2)	N/A	N/A	41.116°N, 74.229°W Ringwood, NJ	This earthquake had a depth of 5.2 km, and it occurred at 15:57:36. Its epicenter was 1.4 km E of Ringwood, NJ (Passaic County). There was no documentation of impacts or damages to the County from this event.
November 5, 2012	Earthquake (2.0)	N/A	N/A	41.0752°N, 74.2217°W	This earthquake had a depth of 5 km, and it occurred at 01:19:11. It was reported by 54 people in 32 ZIP codes, with a maximum intensity of light. There was no documentation of impacts or damages to the County from this event.
April 18, 2013	Earthquake (2.1)	N/A	N/A	40.9959°N, 74.3846°W	This earthquake had a depth of 3 km, and it occurred at 1-:15:20. It was reported by 6 people in 6 ZIP codes, with a maximum intensity of weak. There was no documentation of impacts or damages to the County from this event.
June 23, 2013	Earthquake (2.1)	N/A	N/A	40.904°N, 74.510°W Rockaway, NJ	This earthquake occurred at 15:54:40, with a depth of 2 km. Its epicenter was 1 km E of Rockaway, NJ (Morris County). There was no documentation of impacts or damages to the County from this event.
May 31, 2014	Earthquake (1.0)	N/A	N/A	40.954°N, 74.397°W Boonton, NJ	This earthquake occurred at 9:28:36, with a depth of 8 km. Its epicenter is 6 km N of Boonton, NJ (Morris County). There was no documentation of impacts or damages to the County from this event.
July 18, 2015	Earthquake (1.2)	N/A	N/A	41.088°N, 74.282°W Ringwood, NJ	This earthquake had a depth of 5 km, and it occurred at 15:43:50. Its epicenter was 4 km SW of Ringwood, NJ (Passaic County). There was no documentation of impacts or damages to the County from this event.



July 12, 2015	Earthquake (1.2)	N/A	N/A	41.054°N, 74.295°W Wanaque, NJ	This earthquake occurred at 4:05:55, with a depth of 2 km. Its epicenter was 2 km N of Wanaque, NJ (Passaic County). There was no documentation of impacts or damages to the County from this event.
August 14, 2015	Earthquake (2.7)	N/A	N/A	40.7513°N, 74.5517°W Between Bernardsville and Morristown, NJ	This earthquake had a depth of 3 km, and it occurred at 3:41:24 a.m. with its epicenter in Somerset County, New Jersey. Approximately 276 people reported having felt this event. Sparta Township in Sussex County had reports of nearly 1,246 residents being without power as a result of the earthquake. Power was restored to all residents by 9:10 a.m.

Source: NJGWS 2015; USGS 2015; New Jersey State HMP 2014; Miller 2015

- E East
- km Kilometers
- HMP Hazard Mitigation Plan
- N North
- N/A Not Applicable/Not Available
- NJ New Jersey
- NJGWS New Jersey Geological and Water Survey
- OEM Office of Emergency Management
- S South
- W West

E.2.4 Flooding

Table E-4. Flooding Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
February 12-13, 2008	Flood	N/A	N/A	A protracted precipitation event that started as a wintry mix and then changed to rain caused flooding across the Passaic and Raritan Basins in northern New Jersey. The heaviest rain fell during the first half of the day and into the early afternoon on the 13th. The combination of the heavy rain and snow and ice melt caused flooding of many creeks and rivers as well as poor drainage flooding in urban areas. Clogged catch basins exacerbated the problems. Storm totals averaged between two and three and a half inches. Runoff from the heavy rain and ice melt caused flooding across Sussex County. Twenty-one county roads were blocked either by downed trees and wires or flooding. Much of the flooding resulted from blocked storm drains. U.S. Route 206 was flooded in several portions, and New





Table E-4. Flooding Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				Jersey State Route 15 was shut down in Lafayette Township due to an overflowing river. Precipitation totals included 2.91 inches in Andover Borough, 2.41 inches in Flatbrookville (Walpack Township) and 2.06 inches in Hopatcong Borough. No property damages were reported.
March 4-5, 2008	Flood	N/A	N/A	The combination of a prolonged period of rain and melting snow caused poor drainage flooding throughout northwestern New Jersey as well as flooding of some of the rivers and streams. Rain began during the morning of the 4th and ended on the morning of the 5th. In Sussex County, the runoff from the heavy rain and snow melt caused flooding along the Flat Brook. The Flat Brook at Flatbrookville (Walpack Township) was above its estimated 6 foot flood stage from the 5 th through the 6 th . It crested at 6.75 feet at 5:15pm on the 5 th . Storm total precipitation included 2.31 inches in Andover Borough, 2.14 inches in Walkill (Hamburg Borough) and 1.85 inches in Sussex Borough. No property damages were reported.
July 8, 2008	Flash Flood	N/A	N/A	A pair of thunderstorms with heavy rain caused flooding of smaller streams and poor drainage areas in and around Hainesville in Montague and Sandyston Townships. No property damages were reported.
January 27, 2009	Ice Jam Flooding	N/A	N/A	An ice jam on the Delaware River at Minisink Island was reported to be creating several feet of backwater in the vicinity of Old Mine Road in Montague Township. No property damages were reported.
March 12-15, 2010	Flood	N/A	N/A	Four days of rain, heaviest on the 13th, combined with snowmelt culminated in major flooding in the Passaic and Raritan Basins and flooding throughout New Jersey. It was the worst flooding in the Raritan Basin since April 2007 and the worst flooding in the Passaic Basin since April 1984. New Jersey Governor Chris Christie declared a state of emergency on March 14th. Periods of rain started during the morning of the 12th and fell at its heaviest on the 13th. The heaviest rain fell during the morning in the southern third of the state, afternoon in the central part of the state and in the afternoon into the evening in the northern third of the state. Periods of lighter rain persisted into the 14th and 15th which slowed the recession of streams and rivers in the area. In Sussex County, the worst reported flooding was along its eastern border. In Sparta Township, Lower Main Street was closed due to its undermining by flood waters. Edison Road in Ogdensburg Borough was closed because of washouts. New York Susquehanna and Western Railroad suspended service because of the flooding. The Flat Brook at Flatbrookville (Walpack Township) was above its 6 foot flood stage on the 14th. It crested at 6.81 feet at 1230 p.m. Event precipitation totals were 3.89 inches in Andover Borough, 2.94 inches in Sussex Borough and 2.75 inches in Wantage Township. No property damages were reported.
October 1, 2010	Flood	N/A	N/A	A series of low pressure systems that moved north along a slowly moving cold front brought



Table E-4. Flooding Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				<p>heavy rain into the western half of New Jersey on September 30th and October 1st. Event precipitation totals average three to seven inches. Several streams and rivers flooded across the area and there was also poor drainage flooding. The first round of heavy rain occurred mainly west of New Jersey during the early morning of September 30th. The second and heavier round of precipitation moved in during the evening of September 30th and continued into the morning of October 1st. The rain ended by the early afternoon of October 1st.</p> <p>In Sussex County, the Flat Brook at Flatbrookville (Walpack Township) was above its 6 foot flood stage on the 1st. It crested at 6.27 feet at 530 p.m. Event precipitation totals included 5.50 inches in Andover Borough and Hardyston Township, 5.20 inches in Sparta Township and 5.01 inches in Stockholm (Hardyston Township). No property damages were reported.</p>
January 31, 2011	Ice Jam Flooding	N/A	N/A	Solid ice cover was observed on the Delaware River upstream from the Milford-Montague toll bridge. There was significant backwater from ice at the Montague Township gaging station. There was an ice jam upstream in the area of Mashipacong Island. No property damages were reported.
March 6-7, 2011	Flood	N/A	N/A	<p>A slow moving cold front with waves of low pressure that developed along it brought a precipitation event that dropped between 1.5 and four inches of water equivalent across Northern New Jersey from the early morning of the 6th into the early morning of the 7th. Melting snow contributed to the runoff. The heaviest rain fell during the late afternoon and evening of the 6th. Precipitation ended briefly as snow over the higher terrain of northwest New Jersey during the early morning on the 7th.</p> <p>Governor Christie declared a state of emergency before the start of the second round of heavy rain on March 9th. Some rivers did not fall below flood stage until after Eastern Daylight Time began (on March 13th). Throughout the state, 683 dwellings were affected by both flooding events and 207 suffered at least major damage.</p> <p>A few streams and rivers flooded in Sussex County from the combination of heavy rain and melting snow. In Franklin Borough, Newton Road was flooded by the Wallkill River. In Hampton Township, Parson Road was flooded by the Paulinskill River. Vernon Crossing was overrun by the Black Creek. In Stillwater Township, on Swartwood Road some basement homes were flooded by a brook. The Flat Brook at Flatbrookville (Walpack Township) was above its 6 foot flood stage on the 7th. It crested at the moderate flooding level threshold of 8.00 feet at 1030 a.m. Event precipitation totals are 2.95 inches in Hardyston Township, 2.57 inches in Sussex Borough, 2.25 inches in Andover Borough, Wantage Township and Sussex Borough and 2.02 inches in Vernon Township. The County had approximately \$10,000 in property damage.</p>



Table E-4. Flooding Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
March 11-12, 2011	Flood	N/A	N/A	<p>For the second time within a week, heavy rain fell across New Jersey, especially the northern half of the state. An additional two to five inches of precipitation fell and caused continued flooding in the Passaic Basin and renewed flooding on the Delaware and Raritan Rivers. Snowmelt in the upper reaches of the Delaware Basin contributed to the flooding. Governor Christie declared a state of emergency before the start of the second round of heavy rain on March 9th. Throughout the state, 683 dwellings were affected by both flooding events and 207 suffered at least major damage. The second round of rain started during the early morning of the 10th, fell heavy at times during the daylight hours and evening on the 10th and ended between four a.m. and eight a.m. on the morning on the 11th.</p> <p>In Sussex County, the Flat Brook at Flatbrookville (Walpack Township) was above its six foot flood stage from 956 a.m. through 837 p.m. EST on the 11th. It crested at 6.46 feet at 215 p.m. Event precipitation totals included 3.18 inches in Sparta Township, 2.61 inches in Walpack Township, 2.54 inches in Wantage Township, 2.42 inches in Flatbrookville (Walpack Township), 2.29 inches in Vernon Township and 2.23 inches in Andover Township. No property damages were reported.</p>
June 23, 2011	Flash Flood	N/A	N/A	<p>Thunderstorms moved over Sussex and northwestern Morris Counties and caused flash flooding of smaller streams across southeastern sections of Sussex County. Event precipitation totals averaged two to 4.5 inches. In Andover Borough, U.S. Route 206 was closed near Stickle Pond Road. High Street was closed in the Town of Newton and parking lots off of U.S. Route 206 were flooded in Hampton Township. Precipitation totals included 4.47 inches in Sparta and 2.93 inches in Andover Township. No property damages were reported.</p>
August 26-30, 2011	Hurricane Irene/ Flash Flood/ Flood	DR-4021	Yes	<p>Hurricane Irene moved north along the Atlantic Coast, making landfall near Cape Lookout, North Carolina, on August 27th. The hurricane moved back over open water before making landfall for a second time at Little Egg Inlet in New Jersey on August 28th. This was the first time since 1903 that a hurricane made landfall in New Jersey. Rain fell for an 18-hour period, with totals ranging from six to eight inches across New Jersey. Higher amounts were observed in southwestern, central, and northeastern New Jersey. Irene brought tropical storm force winds, destructive storm surge, and record-breaking freshwater inland flooding across northeast New Jersey. There were thousands of mandatory and voluntary evacuations along the coast and rivers from surge and freshwater flooding, and widespread power outages that lasted for up to two weeks. The Governor of New Jersey declared a state of emergency on August 25th.</p> <p>In Sussex County, flooding impacted Branchville and Ogdensburg boroughs, Frankford, Hampton, Hardyston, and Vernon townships, and the Town of Newton. These municipalities were the hardest hit in the County. Flooding forced the closure of over 100 roadways in the</p>



Table E-4. Flooding Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				<p>county including U.S. Route 206 as well as state and County Routes 94, 15, 23, 517 and 628. The Borough of Branchville was literally cut off after flooding occurred along the Dry Brook. About 100 people were evacuated within the Borough. The Flat Brook at Flatbrookville (Walpack Township) had major flooding and its second highest crest since Hurricane Diane in 1955. The brook was above its six foot flood stage from 810 a.m. on the 28th through 404 p.m. EDT on the 29th. It crested at 10.59 feet at 1215 a.m. on the 29th.</p> <p>Over 100 bridges in the County were damaged and nine bridges were lost (two in Vernon, one in Wantage, three in Frankford, two in Sandyston, and in Stillwater there were bridges down to one lane due to lost stream banks). In Vernon Township, eight families were cut off after another bridge washed out. In Montague, two culverts were lost.</p> <p>A few county facilities were damaged as a result of Hurricane Irene as well. The County record retention center flooded, the County-owned DPW garage in Vernon Township flooded and a tree fell on the County jail. Two regional shelters were open for residents – Sussex County VoTech High School and Hopatcong High School. There were utility outages across the County. Costs to the County included overtime for OEM, DPW, Engineering, Sheriff’s Office, Prosecutors Office and the Health Department. The County had \$12.5 million in damages from Hurricane Irene.</p>
September 5-14, 2011	Remnants of Tropical Storm Lee/ Flash Flood/ Flood	DR-4039	Yes	<p>The remnants of Tropical Storm Lee arrived in New Jersey on September 5, 2011, bringing heavy rains throughout the State. Parts of Trenton and other municipalities along the Delaware River were inundated. Hundreds of residents along the Passaic River and its tributaries had to evacuate. There were a total of 162 roads closed due to flooding throughout the State of New Jersey. Storm totals ranged from three to eight inches of rain. The heavy rain and flooding impacted crops, with farmers reporting up to 75% losses of pumpkin and tomato crops. The State had an estimated \$11.5 million in damages.</p> <p>The heavy rain caused widespread flooding and flash flooding of smaller streams in Sussex County as well as poor drainage flooding across eastern Sussex County from Green Township northeast through parts of Andover, Sparta, Hardyston and Vernon Townships. Many roadways were closed. Schools were closed on the 8th in Vernon and Sparta Townships. A few homes were flooded in Andover Township. Sections of New Jersey State Route 23 and 94 were closed in Franklin Township and Stockholm (Hardyston Township). There were road and culvert washouts in Hopatcong, Stillwater and Sparta. Areas that were impacted during Irene were also affected again from Lee.</p> <p>The Flat Brook flooded a few homes in southwest Sussex County. A flash flood along the Culver Creek in Branchville Borough led to a State of Emergency declaration after the creek</p>



Table E-4. Flooding Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				<p>tore away the Mill Street Bridge in the borough. Ten homes had over eight feet of water in them, the most severely damaged were at the end of Mill Street. Residents from about 50 homes evacuated, with residents from all but one home being able to return at Noon that day. The Flat Brook at Flatbrookville (Walpack Township) had moderate flooding and was above its 6 foot flood stage from 903 a.m. EDT on the 7th through 905 a.m. EDT on the 9th. It crested at 8.90 feet at 600 p.m. EDT on the 8th.</p> <p>The County opened two regional shelters – Sussex County VoTech and Hopatcong High School – both of which were still opened from Hurricane Irene. County-owned facilities experienced damage from wind; windows were damaged and shingles were blow-off the buildings. Costs to the County included overtime for OEM, DPW, Engineering, Sheriff’s Office, Prosecutors Office, and the Health Department. Overall, the County approximately \$1 million in damages from this event.</p>
September 28, 2011	Flood/ Flash Flood	N/A	N/A	<p>In eastern Sussex County, thunderstorms with heavy downpours caused flash flooding along smaller streams and roadways mainly in the County. The heavy rain primarily affected Andover, Byram, Green, and Sparta Townships and Stanhope Borough. Several roads were also closed in Sparta Township and one school was evacuated because a nearby creek flooded. Ponds also overflowed in the township along Stanhope Road. In Andover Township, one home was evacuated along Limecrest Road. Road closures were also reported in and around the Town of Newton because of the flooding. The runoff from the heavy rain that fell earlier in the day on the 28th also led to flooding along the Flat Brook that lasted into the 30th.</p> <p>The Flat Brook at Flatbrookville (Walpack Township) was above its six foot flood stage from 640 p.m on the 28th through 1204 p.m. on the 30th. It crested at 6.54 feet at 1115 p.m. on the 28th. Event precipitation totals included 4.16 inches in Andover Township and 3.83 inches in the Town of Newton. No property damages were reported.</p>
July 23, 2012	Flash Flood	N/A	N/A	<p>A warm front that was moving through the state into New England helped trigger strong to locally severe thunderstorms in the northern half of new Jersey during the afternoon of the 23rd. Besides pockets of damaging winds, the severe thunderstorms were prolific hail producers.</p> <p>In Sussex County, the storms knocked down several trees in Sandyston Township and caused flash flooding of streams and poor drainage flooding on roadways. A lightning strike injured a 12-year-old camper and an 18-year-old counselor at Kittatinny Lake in Sandyston Township, when the bolt struck a tree and traveled into the foundation of their cabin in Stokes State Forest. Rainfall totals ranged from 2.5 inches in Sandyston Township to 3.54 inches in Walpack Township. No property damages were reported.</p>
September 4, 2012	Flash Flood	N/A	N/A	Thunderstorms with torrential downpours associated with the remnants of Hurricane Isaac



Table E-4. Flooding Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				overnight on the 4th caused flash flooding of streams and poor drainage flooding in Montague, Sandyston, Walpack and Wantage Townships in western Sussex County. In Sandyston Township, several driveways were washed away. County Route 560 was closed for debris clean-up. Firefighters pumped water from basements on Bevans Road and County Route 560. Flooded roadways were reported in Montague Township. New Jersey State Route 23 was flooded and closed in Wantage Township. Event precipitation totals included 3.47 inches in Montague Township and 3.44 inches in Wantage Township. Doppler Radar storm total estimates reached 6 inches in parts of Sandyston and Walpack Townships. The County had approximately \$10,000 in property damage from this event.
August 9, 2013	Flood/ Flash Flood	N/A	N/A	Showers and thunderstorms with torrential downpours brought two to six inches of rain to northwestern New Jersey. The heavy rains resulted in flash flooding of smaller streams and poor drainage flooding. In Sussex County, rainfall totals ranged from 2.5 inches in Walpack and Stillwater Townships to over five inches in Sandyston Township. The Papakating Creek at Pelletown (Frankford Township) was above its four foot flood stage from 737 a.m. on the 9th through 700 a.m. on the 10th. It crested at 5.10 feet at 1015 p.m. on the 9th.
April 30 – May 1, 2014	Flood	N/A	N/A	A slow moving low pressure system and a deep southerly flow from the Gulf of Mexico and then the Atlantic Ocean dropped heavy rain across New Jersey centered on the 30th. The steady rain started during the afternoon of the 29th and continued overnight, before falling heavy on the 30th, particularly from the late morning into the evening in the northern parts of the state. Rainfall amounts of two inches in six hours were common. The event caused widespread poor drainage flooding as well as flooding of creeks and rivers throughout most of the state. One hundred forty-six major roadways and interstates were flooded and completely closed or had lane closures throughout the state of New Jersey. In Sussex County, the Flat Brook at Flatbrookville (Walpack Township) had minor flooding and was above its 6 foot flood stage from 811 a.m. through 100 p.m. on May 1st. It crested at 6.10 feet at 1030 a.m. on the 1st. Event precipitation totals included 3.58 inches in Newton, 3.31 inches in Hardyston Township, 3.25 inches in Wantage Township, Sussex Borough and Glenwood (Vernon Township), 3.11 inches at the Andover Airport and 3.04 inches in Montague Township.
July 3, 2014	Flash Flood	N/A	N/A	Thunderstorms with very heavy rain and moist antecedent conditions caused isolated flash flooding in northern New Jersey during the evening of the 3rd. Event precipitation totals reached between two and four inches in parts of western Sussex County. The heavy downpours caused poor drainage, field and small creek flash flooding in parts of Wantage and Montague Townships. Event precipitation totals included 3.69 inches in Wantage Township. Three inches of rain also fell in Sussex Borough. No property damage was reported in the County.



Source: FEMA 2015; NCDC 2015
 °F degrees Fahrenheit
 FEMA Federal Emergency Management Agency
 Mph Miles per hour
 N/A Not Applicable

E.2.5 Geological Hazards

Table E-5. Geological Hazard Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
December 2010	Debris Flow	N/A	N/A	Trigger: Heavy Rain Damages: Yes Location: Sparta Township A small landslide in development lot of new housing development is approximately 40 feet long by 20 feet deep.
March 13, 2010	Debris Flow	N/A	N/A	Trigger: Heavy Rain Damages: Yes Location: Ogdensburg Borough A mudslide about 70 feet long and 40 feet wide forced a three-quarter mile section of Edison Avenue to be closed. The debris flow damaged the road and the guardrail on the side of the tracks and covered the railroad tracks.
March 13, 2010	Debris Flow	N/A	N/A	Trigger: Heavy Rain Damages: Yes Location: Sparta Township A mudslide about 40 feet deep and 40 feet wide occurred near the intersection of Route 517 and Station Road. A quarter mile section of Rt. 517 was closed for three days for cleanup and repairs.
August 2011	Debris Flow	N/A	N/A	Trigger: Heavy Rain Damages: Yes Location: Sandyston Township Debris flow occurred along the Flat Brook probably during Tropical Storm Irene.
August 15, 2011	Debris Flow	N/A	N/A	Trigger: Heavy Rain Damages: Yes Location: Vernon Township A massive landslide in Great Gorge Village occurred along Steamboat Drive near the Minerals resort and at ski slope due to the heavy rain in an area of underground pipeline work.





Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
August 28, 2011	Debris Flow	N/A	N/A	<p>The following debris flows occurred as a result of the heavy rain from Hurricane Irene. While the majority of these events caused localized damages, a few did not. Events are summarized by jurisdiction:</p> <ul style="list-style-type: none"> • Sparta Township: Two debris flows (one large and one small mudslide) occurred on Holland Circle. Both led to damages, temporary road closures, and evacuations. • Frankford Township: One debris flow occurred along Owassa Road. This event did not lead to damages. • Ogdensburg Borough: A moderate sized debris flow occurred on a steep slope along Rt. 517, resulting in damages. • Branchville Borough: A large slump on a steep hill occurred above Culvers Creek. • Vernon Township: Multiple debris flows occurred in the Township, including: <ul style="list-style-type: none"> ○ One on Lake Wallkill Road near Owens Station Road, leading to temporary road closure. ○ One along Macpeek Road, leading to temporary road closure. ○ One small debris flow, no specific location noted. ○ A massive landslide in Great Gorge Village in an area of underground pipeline work. ○ One along Drew Mt. Road on a steep slope. No damages were recorded. ○ Two debris flows along Lake Wallkill Rd., one of which occurred near the state line and led to a temporary road closure. ○ Five small debris flows along County Rt. 565 (Glenwood Rd.) between Babtown Rd and Lake Pochung Rd. ○ One small debris flow along County Rt. 565 (Glenwood Rd.) near Lake Pochung Rd.
September 9, 2011	Debris Flow	N/A	N/A	<p>Trigger: Heavy Rain Damages: Yes Location: Sparta Township</p> <p>Debris flow along lower end of Holland Circle was triggered by heavy rain from Tropical Storm Lee.</p>
2014	Rockfall	N/A	N/A	<p>Trigger: Weathering Damages: No Location: Stillwater Township</p> <p>A small rockfall occurred along old Susquehanna and Western railway bed which is now a hiking trail. While discovered in 2014, it could have happened earlier.</p>
January 13, 2015	Sinkhole	N/A	N/A	<p>A sinkhole and emergency construction on Route 206 forced a shutdown of northbound traffic in Newton. The sinkhole was first reported at 9:56 a.m. As of 1:10 p.m., northbound lanes were still closed.</p>

Source: NJDEP 2012; NOAA-NCDC 2015; NJ.Com 2015; NJ State HMP 2014





FEMA Federal Emergency Management Agency
 N/A Not Applicable

E.2.6 Hurricane and Tropical Storm

Table E-6. Hurricane and Tropical Storm Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
September 6, 2008	Flood (remnants of Tropical Storm Hanna)	N/A	N/A	<p>Heavy rain associated with Tropical Storm Hanna caused widespread heavy rain and poor drainage flooding, especially in the northern part of New Jersey. The runoff also caused some isolated flooding along some of the smaller streams and creeks in the area. Rain moved into the region around noon EDT, fell heavy at times during the late afternoon and early evening and ended during the late evening. Storm totals ranged from around 2 to around 5 inches with the highest amounts in northern New Jersey.</p> <p>In Sussex County, event precipitation totals included 4.44 inches in Sussex Borough, 3.98 inches in Hardyston, 2.85 inches in Newton Township and 2.35 inches in Wantage Township.</p>
August 26-30, 2011	Hurricane Irene/Flash Flood/ Flood	DR-4021	Yes	<p>Hurricane Irene moved north along the Atlantic Coast, making landfall near Cape Lookout, North Carolina, on August 27th. The hurricane moved back over open water before making landfall for a second time at Little Egg Inlet in New Jersey on August 28th. This was the first time since 1903 that a hurricane made landfall in New Jersey. Rain fell for an 18-hour period, with totals ranging from six to eight inches across New Jersey. Higher amounts were observed in southwestern, central, and northeastern New Jersey. Irene brought tropical storm force winds, destructive storm surge, and record-breaking freshwater inland flooding across northeast New Jersey. There were thousands of mandatory and voluntary evacuations along the coast and rivers from surge and freshwater flooding, and widespread power outages that lasted for up to two weeks. The Governor of New Jersey declared a state of emergency on August 25th.</p> <p>In Sussex County, flooding impacted Branchville and Ogdensburg boroughs, Frankford, Hampton, Hardyston, and Vernon townships, and the Town of Newton. These municipalities were the hardest hit in the County. Flooding forced the closure of over 100 roadways in the county including U.S. Route 206 as well as state and County Routes 94, 15, 23, 517 and 628. The Borough of Branchville was literally cut off after flooding occurred along the Dry Brook. About 100 people were evacuated within the Borough. The Flat Brook at Flatbrookville (Walpack Township) had major flooding and its second highest crest since Hurricane Diane in 1955. The brook was above its six foot flood stage from 810 a.m. on the 28th through 404 p.m. EDT on the 29th. It crested at 10.59 feet at 1215 a.m. on the 29th.</p> <p>Over 100 bridges in the County were damaged and nine bridges were lost (two in Vernon, one in Wantage, three in Frankford, two in Sandyston, and in Stillwater there were bridges down to one lane due to lost stream banks). In Vernon Township, eight families were cut off after another</p>





Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				<p>bridge washed out. In Montague, two culverts were lost.</p> <p>A few county facilities were damaged as a result of Hurricane Irene as well. The County record retention center flooded, the County-owned DPW garage in Vernon Township flooded and a tree fell on the County jail. Two regional shelters were open for residents – Sussex County VoTech High School and Hopatcong High School. There were utility outages across the County. Costs to the County included overtime for OEM, DPW, Engineering, Sheriff’s Office, Prosecutors Office and the Health Department. The County had \$12.5 million in damages from Hurricane Irene.</p>
September 5-14, 2011	Remnants of Tropical Storm Lee/ Flash Flood/ Flood	DR-4039	Yes	<p>The remnants of Tropical Storm Lee arrived in New Jersey on September 5, 2011, bringing heavy rains throughout the State. Parts of Trenton and other municipalities along the Delaware River were inundated. Hundreds of residents along the Passaic River and its tributaries had to evacuate. There were a total of 162 roads closed due to flooding throughout the State of New Jersey. Storm totals ranged from three to eight inches of rain. The heavy rain and flooding impacted crops, with farmers reporting up to 75% losses of pumpkin and tomato crops. The State had an estimated \$11.5 million in damages.</p> <p>The heavy rain caused widespread flooding and flash flooding of smaller streams in Sussex County as well as poor drainage flooding across eastern Sussex County from Green Township northeast through parts of Andover, Sparta, Hardyston and Vernon Townships. Many roadways were closed. Schools were closed on the 8th in Vernon and Sparta Townships. A few homes were flooded in Andover Township. Sections of New Jersey State Route 23 and 94 were closed in Franklin Township and Stockholm (Hardyston Township). There were road and culvert washouts in Hopatcong, Stillwater and Sparta. Areas that were impacted during Irene were also affected again from Lee.</p> <p>The Flat Brook flooded a few homes in southwest Sussex County. A flash flood along the Culver Creek in Branchville Borough led to a State of Emergency declaration after the creek tore away the Mill Street Bridge in the borough. Ten homes had over eight feet of water in them, the most severely damaged were at the end of Mill Street. Residents from about 50 homes evacuated, with residents from all but one home being able to return at Noon that day. The Flat Brook at Flatbrookville (Walpack Township) had moderate flooding and was above its 6 foot flood stage from 903 a.m. EDT on the 7th through 905 a.m. EDT on the 9th. It crested at 8.90 feet at 600 p.m. EDT on the 8th.</p> <p>The County opened two regional shelters – Sussex County VoTech and Hopatcong High School – both of which were still opened from Hurricane Irene. County-owned facilities experienced damage from wind; windows were damaged and shingles were blow-off the buildings. Costs to the County included overtime for OEM, DPW, Engineering, Sheriff’s Office, Prosecutors Office, and the Health Department. Overall, the County approximately \$1 million in damages from this event.</p>
October 26 –	Hurricane Sandy	DR-4086	Yes	Hurricane Sandy was the costliest natural disaster by far in the State of New Jersey. Record-



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
November 8, 2012				<p>breaking high tides and wave action combined with sustained winds as high as 60 to 70 mph with wind gusts as high as 80 to 90 mph to batter the State. Statewide, Sandy caused an estimated \$29.4 billion in damage, destroyed or significantly damaged 30,000 homes and businesses, affected 42,000 additional structures, and was responsible directly or indirectly for 38 deaths.</p> <p>Sussex County suffered relatively less damage than counties farther to the east, and the strongest winds occurred late in the evening on the 7th. The largest issue was fallen trees. The only township to report widespread damage was Walpack Township. Peak wind gusts in the County included 79 mph at High Point Monument (Montague Township), 75 mph at Sussex Borough, and 70 mph at Wantage Township. Representative snowfall included 3.0 inches in Highland Lakes (Vernon Township) and 2.1 inches in Wantage Township. Snow related traffic accidents were reported in Vernon Township and Hopatcong Borough. Widespread power outages impacted the entire County. Evacuations occurred in the County as well. There were road closures due to debris throughout the County. Private homes were destroyed due to wind, debris and downed trees.</p> <p>The County opened two regional shelters at Sussex County VoTech and Hopatcong High School and they remained open for up to three weeks. Costs to the County included overtime for OEM, DPW, Engineering, Sheriff's Office, Prosecutors Office and the Health Department. According to NOAA-NCDC storm events database, the County had approximately \$100 million in damages and losses from this event. Hurricane Sandy was the costliest natural disaster by far in the State of New Jersey. Record-breaking high tides and wave action combined with sustained winds as high as 60 to 70 mph with wind gusts as high as 80 to 90 mph to batter the State. Statewide, Sandy caused an estimated \$29.4 billion in damage, destroyed or significantly damaged 30,000 homes and businesses, affected 42,000 additional structures, and was responsible directly or indirectly for 38 deaths.</p> <p>Sussex County suffered relatively less damage than counties farther to the east, and the strongest winds occurred late in the evening on the 7th. The largest issue was fallen trees. The only township to report widespread damage was Walpack Township. Peak wind gusts in the County included 79 mph at High Point Monument (Montague Township), 75 mph at Sussex Borough, and 70 mph at Wantage Township. Representative snowfall included 3.0 inches in Highland Lakes (Vernon Township) and 2.1 inches in Wantage Township. Snow related traffic accidents were reported in Vernon Township and Hopatcong Borough. Widespread power outages impacted the entire County. According to NOAA-NCDC storm events database, the County had approximately \$100 million in damages and losses from this event.</p>

Source: NCDC 2015; ONJSC Rutgers University 2013a; SPC 2015; FEMA 2015

DR Major Disaster Declaration (FEMA)

FEMA Federal Emergency Management Agency

mph miles per hour





N/A Not Applicable
 NCDC National Climatic Data Center
 ONJSC Office of the New Jersey State Climatologist
 SPC Storm Prediction Center

E.2.7 Nor'Easters

Table E-7. Nor'Easter Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	County Designated?	Description
March 1-2, 2009	Winter Storm / Nor'Easter	N/A	N/A	A winter storm impacted most of New Jersey bringing between six and 12 inches of snow across the region. This event was caused by a Nor'Easter that moved east across the region. Many snow emergencies were declared in parts of the State. The combination of strong winds and heavy snow made travel difficult. Numerous schools, businesses and local and county officers were closed. Snowfall totals in Sussex County ranged from 10.6 inches in Hopatcong Borough to 6 inches in the Town of Newton.
October 15, 2009	Winter Weather/ Nor'Easter	N/A	N/A	A Nor'Easter brought an early season measurable snow to the higher terrain of Northwest New Jersey from the afternoon of the 15th into the morning of the 16th. Accumulations on the higher terrain averaged one to four inches. Specific accumulations included 4.0 inches in Vernon, 2.7 inches in Wantage and 1.0 inch in Sparta. Because the ground was still warm, most of the accumulations occurred on non-paved surfaces, bridges and overpasses as well as clinging to the trees and leaves. A few accidents were reported. Northeast winds averaged 10 to 20 mph. This was strong enough to remove some of the snow off the trees and power outages were generally isolated.
December 19-20, 2009	Winter Storm/ Nor'Easter	N/A	N/A	A Nor'Easter was responsible for a major winter storm that impacted New Jersey. This event brought heavy snow across all of New Jersey, except for Sussex County which received lesser amounts of precipitation. The heaviest snow fell along and east of the Interstate 95 corridor. Snowfall totals averaged around three inches in Sussex County to 24 inches in central and southern New Jersey. In Sussex County, snowfall totals reached 3.9 inches in Sparta Township.
March 13-16, 2010	Nor'Easter / Heavy Rain	N/A	N/A	A Nor'Easter developed off the Delmarva peninsula which produced an extended period of heavy rainfall across the area as it tracked very slowly to the northeast. This caused widespread flooding across portions of northeast New Jersey. Wind gusts up to 60 mph were reported along the Delaware coast, with gusts of up to 50 mph reported along the southern coast of New Jersey. The storm also impacted inland portions of New Jersey, with four days of rain and major flooding in the Passaic and Raritan River Basins. Flooding was also reported throughout New Jersey. The four day storm totals ranged from 2.5 inches to six inches with the highest amounts in the Raritan and Passaic Basins. Governor Christie declared a state of emergency. The State had over \$85 million in property damage from this event. The worst reported flooding in the county was along its eastern border. In Sparta Township, Lower Main Street was closed due to its undermining by flood waters. Edison Road in





Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	County Designated?	Description
				Ogdensburg was closed because of washouts. New York Susquehanna and Western Railroad suspended service because of the flooding. The Flat Brook at Flatbrookville was above its 6 foot flood stage from 727 a.m. EDT through 820 p.m. EDT on the 14th. It crested at 6.81 feet at 1230 p.m. EDT. Event precipitation totals were 3.89 inches in Andover, 2.94 inches in Sussex and 2.75 inches in Wantage.
October 29, 2011	Severe Storm (Snowstorm / Nor'Easter)	DR-4048	Yes	<p>A late October winter storm dropped heavy snow across parts of central and all of northwest New Jersey and caused widespread power outages due to many trees still having leaves on them. Sussex, Warren, Morris, Hunterdon, Somerset and Middlesex Counties were identified as major federal disaster areas. Over 800,000 utility customers lost power. Some areas did not have power restored until November 4th. Governor Christie declared a state of emergency and urged people to stay off the roads. Many municipalities opened warming stations and shelters. About 25 major roadways were closed throughout the State. In addition to the snow and rain, there were strong northerly and northeasterly winds, ranging from 15 to 25 mph and gusting up to 35 mph in the impacted areas. These strong winds also contributed to the downed trees, electric lines and power outages. The 19.1 inch snowfall in Barry Lakes (Sussex County) established a new October snowfall record for the state of New Jersey and is higher than any November snowfall record.</p> <p>Snowfall totals in Sussex County included 19.1 inches in Barry Lakes, 15.5 inches in Wantage Township, and 8.3 inches in the Town of Newton.</p>
November 7-8, 2012	Winter Storm / Nor'Easter	N/A	N/A	<p>A strong Nor'Easter caused high winds along the coast, heavy snow in east central New Jersey, ten foot waves along the ocean front and minor tidal flooding along the ocean front with the overnight high tide on the 7th. It caused setbacks with restoration efforts caused by post tropical storm Sandy and forced some coastal area evacuations again. Elsewhere across the state, winds were lighter, but accumulating snows occurred in most areas. Snowfall averaged 1 to 5 inches in most of the state. The combination of heavy snow and wind brought down additional trees, poles and wires and upwards of an additional 150,000 mainly Jersey Central Power and Light customers lost power.</p> <p>Snow related traffic accidents were reported in Vernon and Hopatcong in Sussex County. Representative snowfall included 3 inches in Vernon and Highland Lakes, and 2.1 inches in Wantage Township. Peak wind gusts included 50 mph at High Point and 46 mph in Wantage Township.</p>
March 7-8, 2013	Winter Weather / Nor'Easter	N/A	N/A	A departing Nor'Easter and an upper low disturbance brought heavy snow to Sussex and Morris County and an accumulating snow through central New Jersey. Snowfall totals ranged from two to 10 inches. Snowfall totals in Sussex County ranged from 8.8 inches in Hardyston Township to 10.5 inches in Wantage Township and 11.8 inches in Highland Lakes (Vernon Township).
November 26, 2014	Winter Storm/ Nor'Easter	N/A	N/A	A winter storm struck the day before Thanksgiving, dropping heavy snow over parts of northwest New Jersey and caused power outages to approximately 23,000 customers and travel difficulties. Governor Christie declared a state of emergency and speed limits were reduced on



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	County Designated?	Description
				<p>all major roadways. The weight of the heavy, wet snow tore down tree limbs, trees and power lines in the northwest portion of New Jersey.</p> <p>In Sussex County, Sussex Rural Electric Cooperative reported about 1,150 members without power at 10 a.m. EST on the 27th, with the greatest concentration in Scenic Lakes, Lake Wallkill and Pleasant Valley Lake areas. In Hardyston Township, a destroying house fire was believed to have been started by a surge when power was restored.</p> <p>Representative snowfall (this included the sleet along the Interstate 95 corridor) included 11.5 inches in Highland Lakes (Vernon Township), 10.7 inches in Wantage Township, and 8.9 inches in Sussex Borough.</p>

Source: NOAA-NCDC Storm Database 2015; NWS 2015; FEMA 2015
 DR Major Disaster Declaration (FEMA)
 FEMA Federal Emergency Management Agency
 Mph Miles per hour
 NCDC National Climatic Data Center
 NOAA National Oceanic and Atmospheric Administration
 NWS National Weather Service

E.2.8 Severe Weather

Table E-8. Severe Weather Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
February 11, 2008	Cold/Wind Chill	N/A	N/A	Following the passage of an arctic front on the 10th, the coldest air mass of the season settled into New Jersey. On the morning of the 11th, lingering winds between two systems in surrounding regions, coupled with a very cold air mass, produced low wind chill readings during the morning of the 11th. Wind chill values were as low as 20°F below zero over the higher terrain of Sussex County. The morning low temperature was 1 degree below zero at High Point (Montague Township) and in the single numbers elsewhere in Sussex County.
June 7 – 10, 2008	Excessive Heat	N/A	N/A	The most oppressive heat wave of the meteorological summer affected New Jersey from June 7th through the 10th. The combination of high temperatures well into the 90s to around 100 and dew point temperatures in the 70s produced apparent temperatures or heat indices values as high as around 100°F in northern New Jersey and around 105°F in southern New Jersey. Highest temperatures in Sussex County included 96°F in Andover Township.
July 16 – 22,	Excessive Heat	N/A	N/A	The longest heat wave of the summer affected New Jersey from July 16th through the 22nd. The





Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
2008				heat wave ended in about the northern two thirds of the state on the 22nd as thunderstorms kept temperatures below 90°F. High temperatures were mainly in the lower to mid-90s throughout the heat wave. The hottest days occurred on the 18th, 19th or 20th. The combination of the temperatures and dew points produced apparent temperatures or heat indices of around 100°F. Temperatures ranged from 93°F to 98°F, with a high of 93°F in the Borough of Sussex.
October 28, 2008	Strong Wind	N/A	N/A	Gusty winds of up to 66 mph occurred across New Jersey. The combination of the strong winds, heavy wet snow, and trees still with leaves caused widespread power outages in northwest New Jersey. In Sussex County, there were 443 weather related calls in Sparta Township alone. New Jersey State Route 15 was closed during the afternoon. Peak wind gusts in Sussex County included 52 mph at High Point (Montague Township). Overall, the County had approximately \$500,000 in property damage.
February 16, 2009	Cold/Wind Chill	N/A	N/A	A large arctic high pressure system moved toward the area during the 16th and 17 th , bringing gusty winds and keeping maximum temperatures in the single digits across northwestern New Jersey. Some areas, mainly in the northern part of the state, where the wind was able to drop off considerably, dropped to well below zero. Low temperatures on the 16th included: -15°F at the Sussex Airport (Wantage Township), -12°F in Walpack Township, -1°F in Wantage Township, and -6°F at Andover Township. Low temperatures on the 17th included; -15°F in the Borough of Sussex Borough, -12°F in Walpack Township, and -8°F in Andover Township.
February 12, 2009	Strong Wind	N/A	N/A	Peak wind gusts of 50 to 60 mph impacted New Jersey, knocking down power lines, tree limbs and trees. About 86,000 homes and businesses were without power. The strongest winds and most damage was in central and northern New Jersey. In Sussex County, peak wind gusts included 69 mph at the High Point Monument (Montague Township). Damages to the County were approximately \$30,000.
July 28, 2009	Thunderstorm Winds	N/A	N/A	Isolated severe thunderstorms developed during the afternoon of the 28th in northern New Jersey. Thunderstorm winds with estimated gusts of 64.4 mph knocked down a few trees and wires in Andover Township, where the roof of an apartment building was also damaged. Estimated gusts of 40mph were reported in Ogdensburg Borough, where a tree was knocked down onto the roof of a house during a thunderstorm. Overall, the County had approximately \$35,000 in property damage.
July 29, 2009	EF2 Tornado	N/A	N/A	An EF2 tornado touched down in Wantage Township at about 2:48 p.m. on July 29. It was the first confirmed tornado in Sussex County since August 1990, the first tornado of F2 or EF2 strength ever in the county since records started in 1950 and the first tornado to reach EF2 or F2 strength in New Jersey since the Manalapan tornado of May 27, 2001. The tornado remained on the ground for 6.6 miles before it crossed the border into New York State. Its maximum width was about 100 yards and its highest estimated wind speed was 120 mph. Approximately \$800,000 in property damage and \$200,000 in crop damage.
August 21,	Thunderstorm wind/	N/A	N/A	A couple of severe thunderstorms caused wind damage across Sussex County, hitting the southeast



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
2009	Lightning			<p>half the hardest. The combination of damaging winds and lightning caused about 12,000 homes and businesses to lose power. Twenty-one of the twenty-four municipalities within the county reported power outages. Trees were reported down in Branchville and Franklin boroughs, Fredon, Green, Walpack, and Stillwater townships, and the Town of Newton. Wires were also reported knocked down on U.S. Route 206 and New Jersey State Route 94 in the Town of Newton. Trees fell on vehicles in Newton, Franklin Borough and Green Township. In Green Township, a woman was trapped in her vehicle when live power lines came down on it. A deck was damaged in Franklin Borough and a boat was damaged in Stillwater Township. Power was not fully restored in the county until the 24th. In addition to the severe weather, two lifeguards were struck and injured by lightning at Crystal Springs in Vernon Township. They were thrown to the ground by the strike, were dazed, lost their hearing for a short while and had smoking feet. No wind related injuries were reported.</p> <p>\$50,000 in property damage was reported in Sussex County.</p>
January 3, 2010	High Wind	N/A	N/A	<p>Strong and gusty west to northwest winds occurred for nearly twenty-four hours across New Jersey from the evening of the 2nd through the afternoon of the 3rd. Peak wind gusts measured around 70 mph in the higher terrain of Sussex County. The strong winds downed weak trees, tree limbs and power lines and resulted in widely scattered power outages. Peak wind gusts included 73 mph in Wantage Township, 68 mph at the High Point State Monument (Montague Township). Sussex County had an estimated \$10,000 in property damage.</p>
July 5, 2010	Excessive Heat	N/A	N/A	<p>The hottest weather of the summer season occurred on July 5th through the 7th throughout the state of New Jersey. Temperatures ranged from 90°F to 105°F. Highest temperatures included 101°F in Sussex Borough.</p>
October 11, 2010	Lightning	N/A	N/A	<p>Strong to locally severe thunderstorms formed in central and northern New Jersey during the evening of the 11th. In Sussex County, lightning struck the electrical box in the front of a log cabin home in Hopatcong Borough and ignited a fire that engulfed the unoccupied dwelling. The fire was under control within an hour, but the interior of the cabin was gutted with extensive smoke and fire damage on both floors. The County reported an estimated \$100,000 in property damage.</p>
December 1, 2010	Strong Winds	N/A	N/A	<p>Strong south winds moved across New Jersey during the late morning and early afternoon on December 1st. Enhanced wind gusts preceded a line of showers and isolated thunderstorms that moved in during the late morning and early afternoon. Peak wind gusts average 45 to 50 mph and knocked down weak tree limbs and wires and caused scattered power outages. The heavy rain made it easier for shallow rooted trees to be knocked over. About 34,000 homes and businesses lost power. Most power was restored by the 2nd. Peak wind gusts included 54 mph in Wantage Township. Sussex County had \$10,000 in property damage.</p>
December 27, 2010	High Winds	N/A	N/A	<p>Strong to high winds that started during an afternoon winter storm on the 26th persisted into the evening of the 27th. Peak wind gusts were around 50 mph, except in the higher terrain of Sussex</p>



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				County where gusts reached into the 60s. The strong to high winds knocked down some weak tree limbs and power lines. The largest effect though was the considerable blowing and drifting of the snow the wind caused. This hampered plowing and clean-up operations after the snow ended throughout the day on the 27th. Many roadways and ramps remained closed. About 7,000 homes and businesses lost power. \$10,000 in property damage was reported in Sussex County.
January 24, 2011	Cold/Wind Chill	N/A	N/A	An arctic high pressure system brought in the coldest air mass of the season to New Jersey. Many places saw morning lows that were the coldest during that winter. Northwest winds produced wind chill factors below zero in most of the State. Sussex County experienced a wind chill of -15°F. Actual low temperatures in Sussex County included -17°F in Pelletstown Hamlet, and -11°F in Sussex Borough.
February 19, 2011	High Winds	N/A	N/A	Strong to high west to northwest winds affected New Jersey from the evening of the 18th into the evening of the 19th. Peak wind gusts averaged around 55 mph. The winds tore down trees, tree limbs and wires and caused power outages. About 22,000 homes and businesses lost power, and some were without power until the evening of the 20th. Peak wind gusts included 58 mph in Wantage Township. Sussex County had \$10,000 in property damage.
July 3, 2011	Hail/ Thunderstorm wind	N/A	N/A	A warm front acted as a focus for strong to severe thunderstorms during the early morning of the 3rd in northwestern New Jersey and during the late afternoon and early evening of the 3rd across central New Jersey. In Sussex County, penny size hail fell in Franklin Township and quarter size hail in Sparta Township. Thunderstorm winds knocked down numerous trees in Sparta Township on and around West Mountain Road, Grandview Terrace and Sterling Hill Road. One property lost between fifteen and twenty trees and also suffered roof damage to its home. About 150 homes in the County lost power. Power was fully restored by 3 p.m. that afternoon. The County reported a total of \$50,000 in property damage.
July 21, 2011	Excessive Heat	N/A	N/A	One of the most oppressive heat waves since July 1995. It caused two deaths and hundreds of heat-related injuries. Many locations had high temperatures that were in excess of 100°F. July 22 was the hottest, with heat index values of 110°F to 120°F. Many counties and municipalities opened cooling centers for its residents. Temperatures ranged from 100°F in Cumberland and Cape May Counties, to 106°F in Mercer County. In Sussex County, a high temperature of 101°F was reported in Andover Township.
July 29, 2011	Thunderstorm wind	N/A	N/A	An approaching cold front helped trigger strong to severe thunderstorms across central and northern New Jersey during the early evening of the 29th. In Sussex County, a powerful and damaging microburst occurred in Vernon Township during the early evening of the 29th. Estimated maximum wind speeds were 90 mph. Wind damage began near Silver Fox Lane and moved southeast for about two miles and ended near the intersection of State Route 94 and Sand Hill Road. Most of the wind damage was seen in the roughly 100 downed trees, as well as downed wires. Several homes sustained roof damage from the combination of either trees falling on them, or the winds themselves. In the Tall Timbers Mobile Home Park in Sussex Borough, a number of trees also fell



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				<p>on vehicles and damaged mobile homes. One home on Edsall Drive suffered significant roof damage, and the family was subsequently sheltered at the Crystal Springs Resort. A few other families in the area had to leave their home because of wind damage. An amateur radio antenna on Edsall Drive was bent in half. In addition to Edsall Drive, tree wind damage was extensive on Black Walnut Mountain Road, Basswood Drive and Shebe Drive. About 2,000 Jersey Central Power and Light Customers lost power, 500 still did not have power restored on the afternoon of the 30th. The County had \$100,000 in property damage.</p>
<p>August 26-30, 2011</p>	<p>Hurricane Irene/ Flash Flood/ Flood</p>	<p>DR-4021</p>	<p>Yes</p>	<p>Hurricane Irene moved north along the Atlantic Coast, making landfall near Cape Lookout, North Carolina, on August 27th. The hurricane moved back over open water before making landfall for a second time at Little Egg Inlet in New Jersey on August 28th. This was the first time since 1903 that a hurricane made landfall in New Jersey. Rain fell for an 18-hour period, with totals ranging from six to eight inches across New Jersey. Higher amounts were observed in southwestern, central, and northeastern New Jersey. Irene brought tropical storm force winds, destructive storm surge, and record-breaking freshwater inland flooding across northeast New Jersey. There were thousands of mandatory and voluntary evacuations along the coast and rivers from surge and freshwater flooding, and widespread power outages that lasted for up to two weeks. The Governor of New Jersey declared a state of emergency on August 25th.</p> <p>In Sussex County, flooding impacted Branchville and Ogdensburg boroughs, Frankford, Hampton, Hardyston, and Vernon townships, and the Town of Newton. These municipalities were the hardest hit in the County. Flooding forced the closure of over 100 roadways in the county including U.S. Route 206 as well as state and County Routes 94, 15, 23, 517 and 628. The Borough of Branchville was literally cut off after flooding occurred along the Dry Brook. About 100 people were evacuated within the Borough. The Flat Brook at Flatbrookville (Walpack Township) had major flooding and its second highest crest since Hurricane Diane in 1955. The brook was above its six foot flood stage from 810 a.m. on the 28th through 404 p.m. EDT on the 29th. It crested at 10.59 feet at 1215 a.m. on the 29th.</p> <p>Over 100 bridges in the County were damaged and nine bridges were lost (two in Vernon, one in Wantage, three in Frankford, two in Sandyston, and in Stillwater there were bridges down to one lane due to lost stream banks). In Vernon Township, eight families were cut off after another bridge washed out. In Montague, two culverts were lost.</p> <p>A few county facilities were damaged as a result of Hurricane Irene as well. The County record retention center flooded, the County-owned DPW garage in Vernon Township flooded and a tree fell on the County jail. Two regional shelters were open for residents – Sussex County VoTech</p>



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				High School and Hopatcong High School. There were utility outages across the County. Costs to the County included overtime for OEM, DPW, Engineering, Sheriff's Office, Prosecutors Office and the Health Department. The County had \$12.5 million in damages from Hurricane Irene.
September 5-14, 2011	Remnants of Tropical Storm Lee/ Flash Flood/ Flood	DR-4039	Yes	<p>The remnants of Tropical Storm Lee arrived in New Jersey on September 5, 2011, bringing heavy rains throughout the State. Parts of Trenton and other municipalities along the Delaware River were inundated. Hundreds of residents along the Passaic River and its tributaries had to evacuate. There were a total of 162 roads closed due to flooding throughout the State of New Jersey. Storm totals ranged from three to eight inches of rain. The heavy rain and flooding impacted crops, with farmers reporting up to 75% losses of pumpkin and tomato crops. The State had an estimated \$11.5 million in damages.</p> <p>The heavy rain caused widespread flooding and flash flooding of smaller streams in Sussex County as well as poor drainage flooding across eastern Sussex County from Green Township northeast through parts of Andover, Sparta, Hardyston and Vernon Townships. Many roadways were closed. Schools were closed on the 8th in Vernon and Sparta Townships. A few homes were flooded in Andover Township. Sections of New Jersey State Route 23 and 94 were closed in Franklin Township and Stockholm (Hardyston Township). There were road and culvert washouts in Hopatcong, Stillwater and Sparta. Areas that were impacted during Irene were also affected again from Lee.</p> <p>The Flat Brook flooded a few homes in southwest Sussex County. A flash flood along the Culver Creek in Branchville Borough led to a State of Emergency declaration after the creek tore away the Mill Street Bridge in the borough. Ten homes had over eight feet of water in them, the most severely damaged were at the end of Mill Street. Residents from about 50 homes evacuated, with residents from all but one home being able to return at Noon that day. The Flat Brook at Flatbrookville (Walpack Township) had moderate flooding and was above its 6 foot flood stage from 903 a.m. EDT on the 7th through 905 a.m. EDT on the 9th. It crested at 8.90 feet at 600 p.m. EDT on the 8th.</p> <p>The County opened two regional shelters – Sussex County VoTech and Hopatcong High School – both of which were still opened from Hurricane Irene. County-owned facilities experienced damage from wind; windows were damaged and shingles were blow-off the buildings. Costs to the County included overtime for OEM, DPW, Engineering, Sheriff's Office, Prosecutors Office, and the Health Department. Overall, the County approximately \$1 million in damages from this event.</p>
October 29,	Severe Storm	DR-4048	Yes	A late October winter storm dropped heavy snow across parts of central and all of northwest New



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
2011	(Snowstorm / Nor'Easter)			<p>Jersey and caused widespread power outages due to many trees still having leaves on them. Sussex, Warren, Morris, Hunterdon, Somerset and Middlesex Counties were identified as major federal disaster areas. Over 800,000 utility customers lost power. Some areas did not have power restored until November 4th. Governor Christie declared a state of emergency and urged people to stay off the roads. Many municipalities opened warming stations and shelters. About 25 major roadways were closed throughout the State. In addition to the snow and rain, there were strong northerly and northeasterly winds, ranging from 15 to 25 mph and gusting up to 35 mph in the impacted areas. These strong winds also contributed to the downed trees, electric lines and power outages. The 19.1 inch snowfall in Barry Lakes (Sussex County) established a new October snowfall record for the state of New Jersey and is higher than any November snowfall record.</p> <p>Snowfall totals in Sussex County included 19.1 inches in Barry Lakes, 15.5 inches in Wantage Township, and 8.3 inches in the Town of Newton.</p>
February 25, 2012	High Wind	N/A	N/A	<p>Strong winds downed weak trees, tree limbs and power lines and caused scattered outages in Sussex County. Peak wind gusts included 62 mph in Wantage Township. The County reported \$12,500 in property damage.</p>
March 1 – April 9, 2012	Hail, Frost/Freeze, Wind/High Winds	N/A	N/A	<p>Strong winds impacted Sussex County and knocked down some weak tree limbs and power lines and caused isolated outages. In addition to downing weak trees, tree limbs and wires, the strong winds enhanced the spread of wildfires due to the recent dry weather and low relative humidity levels. The string of events led Sussex County to be included in two USDA disaster designations, S3249 and S3251, (as a contiguous county). Sussex County reported nearly \$10,000 in wind damage from four wind events in this time period.</p> <p>Peak wind gusts recorded in Sussex County were as follows: 47 mph at High Point (Montague Township) on March 3rd; 49 mph at High Point and 47 at Wantage Township on March 8th; 56 mph at High Point and 52 at Wantage Township on March 26th; and 48 mph at Wantage Township on April 9th.</p>
June 2, 2012	Drought, excessive heat	N/A	N/A	<p>Sussex County was included as a contiguous county in USDA disaster designation S3427 for drought and excessive heat.</p>
June 20 – 22, 2012	Heat	N/A	N/A	<p>A three-day heat wave occurred throughout the entire State, bringing temperatures between 94°F and 99°F. In Sussex County, the heat caused some telephone pole and power line fires in Hopatcong Borough on the 21st. Highest temperatures included 95°F in Andover Township and Sussex Borough. The heat wave broke dramatically when a series of severe thunderstorms impacted New Jersey.</p>



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
July 17-18, 2012	Thunderstorms and Excessive Heat	N/A	N/A	<p>An unseasonably hot and humid air mass affected New Jersey on the 17th and 18th, with high temperatures in the mid to upper 90s and heat indices near 100°F on the 17th and high temperatures around 100°F and heat indices between 105°F and 110°F on the 18th. Highest temperatures in Sussex County temperatures ranged from 100°F in Walpack Township to 97°F in Sussex Borough. The hot weather ended the afternoon of the 18th, as scattered strong to severe thunderstorms moved across northern New Jersey.</p> <p>Additionally, thunderstorms impacted the County by downing trees that blocked SR 23 south of SR 94, and SR 94 near North Church Road in Hamburg Borough. Outages were reported in Byram, Sparta, and Hardyston townships, Hamburg and Sussex boroughs, and the Town of Newton. Wind speeds of 60 mph were recorded in the Hamlet of Hardystownville, Andover Township, and Sayreville Borough, and 58 mph in Beaver Lake (Hardyston Township).</p> <p>Some roadway flooding also occurred. Nickel size hail was reported in Sussex Borough and Andover Township. The storms also brought lightning throughout Sussex County. Lightning struck a home on Havens Road in Wantage Township, causing fire damage to its roof. The Selective Insurance Company in Branchville Borough was evacuated after a lightning strike triggered a chemical fire suppression system – several employees were treated for chemical inhalation. Another strike ignited bales of hay inside of a barn on Wykertown Road in Frankford Township. Four fire companies battled the blaze that caused minimal damage.</p> <p>About 3,000 homes and businesses lost power throughout Sussex County. \$15,000 in property damage, and \$5,000 in crop damage was reported from the storms.</p>
July 23, 2012	Lightning	N/A	N/A	<p>A warm front that was moving through the state into New England helped trigger strong to locally severe thunderstorms in the northern half of new Jersey during the afternoon of the 23rd. Besides pockets of damaging winds, the severe thunderstorms were prolific hail producers.</p> <p>In Sussex County, the storms knocked down several trees in Sandyston Township. A lightning strike injured a 12-year-old camper and an 18-year-old counselor at Kittatinny Lake in Sandyston Township, when the bolt struck a tree and traveled into the foundation of their cabin in Stokes State Forest. The storms dropped half dollar size hail in Sandyston Township; quarter size hail in Walpack Township, Middleville (Stillwater Township), and Myrtle Grove (Hampton Township); quarter size hail in Hainesville (Sandyston Township); and nickel size hail in Branchville Borough.</p>
October 26 – November 8,	Hurricane Sandy	DR-4086	Yes	<p>Hurricane Sandy was the costliest natural disaster by far in the State of New Jersey. Record-breaking high tides and wave action combined with sustained winds as high as 60 to 70 mph with</p>





Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
2012				<p>wind gusts as high as 80 to 90 mph to batter the State. Statewide, Sandy caused an estimated \$29.4 billion in damage, destroyed or significantly damaged 30,000 homes and businesses, affected 42,000 additional structures, and was responsible directly or indirectly for 38 deaths.</p> <p>Sussex County suffered relatively less damage than counties farther to the east, and the strongest winds occurred late in the evening on the 7th. The largest issue was fallen trees. The only township to report widespread damage was Walpack Township. Peak wind gusts in the County included 79 mph at High Point Monument (Montague Township), 75 mph at Sussex Borough, and 70 mph at Wantage Township. Representative snowfall included 3.0 inches in Highland Lakes (Vernon Township) and 2.1 inches in Wantage Township. Snow related traffic accidents were reported in Vernon Township and Hopatcong Borough. Widespread power outages impacted the entire County. Evacuations occurred in the County as well. There were road closures due to debris throughout the County. Private homes were destroyed due to wind, debris and downed trees.</p> <p>The County opened two regional shelters at Sussex County VoTech and Hopatcong High School and they remained open for up to three weeks. Costs to the County included overtime for OEM, DPW, Engineering, Sheriff's Office, Prosecutors Office and the Health Department. According to NOAA-NCDC storm events database, the County had approximately \$100 million in damages and losses from this event.</p>
June 28 – Nov. 8, 2012	Severe Weather Events	N/A	N/A	The combined effects of a series of severe weather events over four months led to Sussex County's designation as a primary county in USDA disaster designation S3487. In Sussex County during this period, NOAA-NCDC reported one day of excessive heat, nine days of hail, 18 days of high, strong, or thunderstorm wind, and two lightning incidents, leading to a total of over \$one million in property damages. \$67,984.64 in USDA indemnity payments went to Sussex County farmers for lost corn crops in 2012.
May 1, 2013	Excessive rain and related flooding, high winds, and hail	N/A	N/A	Sussex County was included as a contiguous county in USDA disaster designation S3593. USDA reported making \$32,371.30 in indemnity payments to Sussex County farmers for lost corn crops in 2013.
July 7 – 20, 2013	Heat Wave	N/A	N/A	This was the 5 th warmest July in New Jersey since records commenced in 1895. The average temperature for the month was 78.2°F. In Sussex County, the warmest temperatures occurred on the 7 th , 15 th , and 18 th , with temperatures ranging from 93°F in Walpack Township on the 7 th to 97°F in Andover Township on the 15 th and the 18 th . Numerous cooling centers were opened up across the County.
September 12, 2013	Thunderstorm Wind	N/A	N/A	A strong cold front helped trigger of line of strong to severe thunderstorms that moved through northern and central New Jersey during the early evening on the 12th. In Sussex County, downed





Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				trees and wires and blocked roadways were reported along and around Kennedy Road in Green Township and across SR 517 in Ogdensburg Borough. Several downed trees lead to closure of Alpine and South Shore Trails in Sparta Township, where strong winds also tore siding off some homes. Wind speeds of 60 mph were recorded in Tranquility (Green Township) and Ogdensburg Borough, and 64 mph in Sparta Township. About 5,000 homes and businesses in Sussex County lost power. Power was not fully restored until later in the day on the 13th. Sussex County had roughly \$20,000 in property damage.
January 4-7, 2014	Cold/Wind Chill	N/A	N/A	One of the harshest arctic outbreaks in years occurred in New Jersey in the first week of January. Low temperatures on the morning of the 4th included -10°F in Pelletstown Hamlet, -9°F in Sussex Borough. A strong cold front with gusty winds on the 6 th saw wind speeds of 44 mph in Sussex Borough. Low temperatures on the 7 th included zero in Sussex Borough, and the lowest wind chill factor that day was -20°F in Wantage Township.
January 22, 2014	Cold/Wind Chill	N/A	N/A	Strong northwest winds coupled with another arctic air mass to drop low temperatures on the morning of the 22nd to below zero lows in the northwest New Jersey. Lowest hourly wind chills included -14°F at Sussex Borough. Actual low temperatures included -5°F below zero in Wantage Township and -2°F in Andover Township.
March 12, 2014	High Wind	N/A	N/A	The high winds in Sussex County led to the death of a 74-year-old man when an 80 foot tall tree fell completely through his home on Maxim Drive in Hopatcong Borough on the afternoon of the 13th. The tree also damaged the neighboring home. Roofing debris on a kerosene heater started a small fire. A police officer rescued two dogs in the house and was injured extinguishing the fire. Sussex County reported \$100,000 in property damage.
July 2-3, 2014	Heat/ Thunderstorm Wind/ Lightning	N/A	N/A	A hot start to July peaked on the 2nd in interior New Jersey with high temperatures in the lower to mid-90s and afternoon heat index values reaching 100 to 105 degrees. In Sussex County, highest temperatures included 93°F in Sussex Borough. The heat subsided as an approaching cold front then triggered a series of severe thunderstorms in the second half of the day on the 3 rd . About 33,000 homes and businesses lost power throughout the state from the combination of wind damage and lightning strikes. A tree fell down into a house in Frankford Township. A lightning strike injured three people walking along Mackerley Road in Green Township. Another lightning strike and ensuing fire burned a barn to the ground in Frankford Township. The County had approximately \$60,000 in property damages and \$10,000 in crop damage over the two days.
February, 2015	Cold/Wind Chill	N/A	N/A	A series of arctic blasts affected New Jersey in February, many of which were accompanied with strong winds, making this the 6th coldest February on record since 1895 with an average statewide temperature of 22.3°F (11.2°F below average). The highest winds occurred in the higher terrain of



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				Sussex County, where peak wind gusts averaged around 60 mph and hit 61 mph in Wantage Township. The high winds caused isolated property damage (mainly stripped siding) and downed trees, resulting in downed wires and power outages. Actual low temperatures in Sussex County included zero in Walpack Township and 4°F in Sussex Borough on the 13 th ; and -1 degree in Sussex Borough on the 15 th . Lowest hourly wind chill factors included -22°F in Sussex Borough. Wind damage in Sussex County was estimated to reach \$10,000 in property damages.

Source: FEMA 2015; NCDC 2015; SPC 2015; ONJSC 2015
 FEMA Federal Emergency Management Agency
 Mph Miles per hour
 N/A Not Applicable / Not Available
 °F degrees Fahrenheit
 SR New Jersey State Route

E.2.9 Severe Winter Weather

Table E-9. Severe Winter Weather Events in Sussex County, 2008-2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	County Designated?	Description
February 12-13, 2008	Winter Storm	N/A	N/A	<p>A winter storm of snow, sleet and freezing rain affected northwest New Jersey and most of the Raritan River Basin. The wintry mix led to slippery road conditions which led to early dismissals of schools. The storm also led to power outages due to ice covered trees, limbs and wires which were knocked down. Approximately 45,000 homes and businesses were without power.</p> <p>In Sussex County, the wintry mix led to widespread problems. Twenty-one county roads had blockages due to downed trees and wires. Power outages were widespread, as JCP&L reported 30,000 customers in Sussex County lost power mainly in the Newton area and parts of Sparta Township. The Sussex Rural Electric Cooperative, which serves 12,000 members in the northern regions of the county, reported that the Highland Lakes and Barry Lakes sections of Vernon Township were the hardest hit. The County had to remove debris throughout the County as well. In the Town of Newton, a Department of Public Works truck sustained severe fire damage when live wires, weighted down by ice, fell on it on Overlook Road. The driver was uninjured. The Newton Memorial Hospital sustained leaks due to a build-up of snow and ice on the roof. Also in Newton, large trees were completely toppled over due to the ice build-up, with their root ball still attached. In Franklin Borough, trees were downed on Sterling Street. In Sparta Township, ice</p>



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	County Designated?	Description
				covered trees toppled over into some roads, even blocking some. Snow and sleet accumulations included 4.0 inches in Wantage Township and 3.5 inches in Hopatcong Borough. The county sustained \$150,000 in damages from the storm.
December 10, 2008	Ice Storm	N/A	N/A	Up to one inch of ice accrued on exposed surfaces and knocked down numerous tree limbs, trees, and power lines. Hardest hit was the Highland Lakes region of Vernon Township, but ice damage also affected areas of Sandyston, Sparta, Walpack, Wantage, and Montague Townships. Ice damage started at elevations greater than 1,000 feet.
February 22-23, 2010	Winter Storm	N/A	N/A	A protracted winter storm dropped a wintry mix of snow, sleet, and freezing rain from in northwest New Jersey and affected Sussex County the most. Representative snowfall included 11.0 inches in Wantage Township, 8.7 inches in Sussex borough, 8.0 inches in Beemerville (Wantage Township), and 6.6 inches in Sparta and Vernon Townships.
January 26-27, 2011	Heavy Snow	N/A	N/A	A protracted winter storm affected nearly all of New Jersey from the early morning of the 26th into the early morning of the 27th. Snow and sleet accumulations reached 12 to 18 inches in southwest New Jersey and the Passaic and Raritan Basins with lesser amounts elsewhere. The continued onslaught of winter weather was causing numerous municipalities to exhaust their snow removal budgets. The heavy snow also took its toll on plows as many needed to be repaired after this event. The one-two punch hit central and southwest New Jersey the hardest. Many municipalities declared snow emergencies. In Sussex County, over 20 vehicles drove off roadways, the most in Sparta Township. Representative snowfall included 8.9 inches in Sparta Township and 6.9 inches in the Town of Newton.
February 1-2, 2011	Winter Storm	N/A	N/A	A winter storm dropped several inches of sleet and snow on Sussex County and northwest New Jersey, including a long period of freezing rain that produced ice accretions of approximately a half inch. The ice accretions took down weak trees, tree limbs, and power lines. Approximately 36,000 homes and businesses were without power. Many schools and businesses were closed due to this event. In Sussex County, numerous vehicles skidded off roadways. In Sparta, an ambulance and postal truck collided, but no injuries occurred. Representative snow and sleet accumulations included 5.2 inches in Wantage Township and 3.5 inches in Fredon Township. Overall, the County had overtime costs for snow and debris removal.
March 23-24, 2011	Winter Storm	N/A	N/A	Snow accumulations averaged two to 10 inches in northwestern New Jersey and one to four inches in the Raritan Basin. A band of heavier snow that fell across southern Sussex County, Warren County, and western Morris County accounted for the highest snowfall totals. Ice accretions averaged a tenth of an inch or less. Representative snowfall included 8.8 inches in Andover Township, 8.0 inches in Fredon Township, and 4.3 inches in Wantage Township.
October 29, 2011	Severe Storm (Snowstorm /	DR-4048	Yes	A late October winter storm dropped heavy snow across parts of central and all of northwest New Jersey and caused widespread power outages due to many trees still having leaves on them. Sussex, Warren, Morris, Hunterdon, Somerset and Middlesex Counties were identified as major



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	County Designated?	Description
	Nor'Easter)			<p>federal disaster areas. Over 800,000 utility customers lost power. Some areas did not have power restored until November 4th. Governor Christie declared a state of emergency and urged people to stay off the roads. Many municipalities opened warming stations and shelters. About 25 major roadways were closed throughout the State. In addition to the snow and rain, there were strong northerly and northeasterly winds, ranging from 15 to 25 mph and gusting up to 35 mph in the impacted areas. These strong winds also contributed to the downed trees, electric lines and power outages. The 19.1 inch snowfall in Barry Lakes (Sussex County) established a new October snowfall record for the state of New Jersey and is higher than any November snowfall record.</p> <p>Snowfall totals in Sussex County included 19.1 inches in Barry Lakes, 15.5 inches in Wantage Township, and 8.3 inches in the Town of Newton.</p>
December 26-27, 2012	Winter Storm	N/A	N/A	<p>An intense low-pressure system brought a winter storm to Sussex County and a wintry mix in the rest of northwestern New Jersey. A combination of snow, sleet, and freezing rain occurred. Snowfall averaged one to four inches, except around six inches in Sussex County. Ice accumulations averaged one tenth of an inch.</p> <p>Sussex County hit the hardest by the storm. In Sparta alone there were twenty reported accidents. In Frankford Township, a mail truck drove through a guard rail on U.S. Route 206. The driver was uninjured. Representative snowfall included 7.2 inches in Highland Lakes (Vernon Township), 6.0 inches in Wantage Township, 5.9 inches in Hardyston Township, 5.5 inches in Montague Township, 5.2 inches in Vernon Township, and 5.0 inches in Sparta Township.</p>
February 8-9, 2013	Winter Storm	N/A	N/A	<p>A winter storm caused scattered power outages reported as result of the gusty winds in Sussex County. Peak wind speeds included 53 mph in Wantage Township, 51 mph at the High Point Monument in Montague Township. Total snowfall accumulations included 14.1 inches in Vernon Township.</p>
March 7-8, 2013	Heavy Snow	N/A	N/A	<p>The combination of wraparound moisture from the departing Nor'Easter and a new upper low disturbance brought heavy snow to Sussex and Morris Counties and an accumulating snow through central New Jersey from the late afternoon on March 7th through March 8th. The snow impacted the morning commute and travel on the 8th, and caused about 1,500 homes and businesses to lose power in northwest New Jersey. Representative snowfall included 11.8 inches in Highland Lakes (Vernon Township), 10.5 inches in Wantage Township, and 8.8 inches in Hardyston Township.</p>
February 5, 2014	Winter Storm	N/A	N/A	<p>A major winter storm brought heavy snow and sleet to northwest New Jersey and a wintry mix which included a significant accumulation of ice to the central third of New Jersey. Snowfall reached one foot in Sussex County and ice accumulations were as high as half an inch. The snow</p>



Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	County Designated?	Description
				<p>that was still on the trees from the just concluded winter storm was a major contributing factor to the power outages. The weight of the snow, then sleet and freezing rain on limbs all collaborated to cause more tree damage than would have occurred if trees were bare at the start of the event. It was the worst ice related outages in the Public Service Electric and Gas's service area since 1999.</p> <p>Governor Chris Christie declared a State of Emergency and all New Jersey State offices were closed on the 5th for all non-essential workers. Except in the southeast part of the state, schools were closed. Rutgers University was closed also. New Jersey State Police responded statewide to about 170 accidents and around 180 calls for assistance from disabled motorists.</p> <p>Representative snowfall and sleet accumulations included 11.0 inches in Wantage and Montague Townships and 8.0 inches in Highland Lakes (Vernon Township).</p>
February 13, 2014	Winter Storm	N/A	N/A	<p>A winter storm dropped heavy snow and sleet as well as some freezing rain across most of New Jersey, except for the immediate coast. Snowfall and sleet totals average 10 to 20 inches from around the Interstate 95 corridor northwestward with the highest amounts in Warren and Sussex Counties. Governor Chris Christie declared a state of emergency and New Jersey State Offices were closed and non-essential personnel did not have to report to work. Representative snowfall included 22.8 inches in Montague Township, 19.2 inches in Highland Lakes (Vernon Township), and 17.2 inches in Wantage Township.</p>
November 26, 2014	Winter Storm	N/A	N/A	<p>A winter storm struck the day before Thanksgiving, dropping heavy snow over parts of northwest New Jersey and caused power outages to approximately 23,000 customers and travel difficulties. Governor Christie declared a state of emergency and speed limits were reduced on all major roadways. The weight of the heavy, wet snow tore down tree limbs, trees and power lines in the northwest portion of New Jersey.</p> <p>In Sussex County, Sussex Rural Electric Cooperative reported about 1,150 members without power at 10 a.m. EST on the 27th, with the greatest concentration in Scenic Lakes, Lake Wallkill and Pleasant Valley Lake areas. In Hardyston Township, a destroying house fire was believed to have been started by a surge when power was restored.</p> <p>Representative snowfall (this included the sleet along the Interstate 95 corridor) included 11.5 inches in Highland Lakes (Vernon Township), 10.7 inches in Wantage Township, 8.9 inches in Sussex Borough.</p>

Source: NOAA NCDC 2015; FEMA 2015; NWS 2015





E.2.1 Wildfire

Table E-10. Wildfire Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
March 23, 2009	Wildfire	N/A	N/A	A series of brush fires occurred across New Jersey on the 23rd. Most were in the northern part of the state as the combination of strong north winds, low humidity levels and a very dry March made it easy for fires to spread rapidly. The peak wind gusts on the 23rd at both Philadelphia and Newark Liberty International Airports were 38 mph. In Sussex County, a brush fire affected just over ten acres near a residential community in Wantage Township. The wildfire was in a grass field adjacent to houses. Forest Fire volunteers managed to protect the homes.
April 7, 2010	Wildfire	N/A	N/A	Unseasonably warm and dry weather coupled with gusty southwest winds made it easy for wildfires to spread in New Jersey on the 7th. Two large wildfires occurred in Burlington and Sussex Counties. In Sussex County, a wildfire occurred at the intersection of County Route 521 and Katey Lane in Frankford Township. The fire was located in a very remote area near Culver's Gap west of Lake Owassa. The fire was reported at 421 p.m. By early that evening, the fire continued to grow with an estimated 40 acres consumed. An extreme smoke condition existed. A precautionary evacuation of Kittatinny Lake Community took place. Two firefighters were treated for minor non-life threatening injuries. The Salvation Army supplied a water canteen for fire fighters at the scene. No forced evacuations and no danger to any structures occurred. The fire was contained the next day.
March 26, 2012	Wildfire	N/A	N/A	The combination of strong winds, low humidity levels and an unseasonably dry start to 2012 led to several wildfires throughout New Jersey on the 26th. Through March 27th, there were 315 wildfires that consumed 254 acres throughout New Jersey. By comparison to date in 2011 there were only 167 wildfires that consumed 176 acres. March 2012 was not only the warmest (49.7°F statewide average), but also the 10th driest March on record since 1895. The statewide average precipitation total of 1.97 inches was only forty-six percent of normal and the driest March since 2006 in New Jersey. In Hopatcong Borough (Sussex County), a brush fire occurred during the evening of the 26th on Stevens Trail.
April 6, 2012	Wildfire	N/A	N/A	There was a wildfire on the 6th in Sussex County in Vernon Township at Wawayanda State Park. The Pinwheel Fire was a brush fire that was brought under control by the late morning of the 6th. New Jersey Forest Fire Services (also used helicopters) and Department of Environmental Protection firefighters battled the blaze. The steep terrain and gusty winds caused difficulty for the firefighters. There was no



E.2.1 Wildfire

Table E-10. Wildfire Events in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	Sussex County Designated?	Description
				impact to properties or roadways.
April 8, 2012	Wildfire	N/A	N/A	Two separate wildfires occurred in Wawayanda State Park near the Appalachian Trail on the 8th in Sussex County. One burned about 10 acres, the second about five acres. The Appalachian Trail in Wawayanda between New Jersey State Route 94 and Barrett Road in Vernon Township was closed due to the wildfire in vicinity of Pinwheel's Vista. Other smaller wildfires were reported in New Jersey in Warren, Morris, Hunterdon, Middlesex Ocean and Cape May Counties. Both fires were contained by that evening. Gusty northwest winds on the 8th (with many peak gusts near 40 mph) helped spread the fires more rapidly. There were 57 reported wildfires in New Jersey on the weekend of the 7th and 8th.
April 6, 2014	Wildfire	N/A	N/A	A few smaller wildfires occurred in Sussex County from the 6th into the night of the 7th. The largest was a 75 acre wildfire on a mountain ridge behind an A&P Supermarket on County Route 515 in Vernon Township. Forty firefighters battled the blaze and water from Highland Lake was used to extinguish it. Smaller brush fires charred nine acres along U.S. Route 206 in Byram Township. Other brush fires occurred along State Route 15 in Sparta Township and Twin Oaks Road in Stillwater Township.
April 21-22, 2014	Wildfire	N/A	N/A	A brush fire began in Vernon Township, about 6:30 p.m. By the following morning, it had spread to cover about 100 acres. Local fire departments from Vernon and Highland Lakes responded to the event. No injuries were reported, and the fire was not close enough to residences or structures to require any evacuations.

Source: NOAA-NCDC 2014; FEMA 2014; NJFFS 2015; NJ.Com 2015
 FEMA Federal Emergency Management Agency
 NCDC National Climatic Data Center
 NOAA National Oceanic and Atmospheric Administration
 ONJSC Office of the New Jersey State Climatologist

E.2.2 Hazardous Materials





Table E-11. Hazardous Materials Incidents in Sussex County, 2008 to 2015

Date(s) of Event	Event Type	FEMA Declaration Number (if applicable)	County Designated?	Description
March 22, 2010	Hazardous Materials Incident (In-transit)	N/A	N/A	A cargo tank motor vehicle experienced a hazardous materials incident on the highway in Hamburg, NJ. This was not classified as serious, and the total amount of estimated damages was \$0.
August 9, 2012	Hazardous Materials Incident (In-transit)	N/A	N/A	A cargo tank motor vehicle experienced a hazardous materials incident on the highway in Sparta, NJ. This was not classified as a serious incident, and the amount of estimated damages was \$5,000.
October 17, 2013	Hazardous Materials Incident (In-transit)	N/A	N/A	A cargo tank motor vehicle experienced a hazardous materials incident on the highway in Andover, NJ. This was classified as a serious incident, and the amount of estimated damages was \$0.
August 3, 2015	Strong Fume	N/A	N/A	The Action Park was forced to close early after several people were made sick by fumes from the Roaming Springs section of the Park. The Sussex County HAZMAT team investigated, and several lifeguards were treated for eye and respiratory irritation.

Source: PHMSA 2015



APPENDIX F. MITIGATION STRATEGY SUPPLEMENT

This appendix summarizes additional activities and resources provided to plan participants to support the update of the mitigation strategy.

F.1 2016 GOALS AND OBJECTIVES REVIEW

County and municipal planning documents and recent policies changes were reviewed and discussed with the Planning Partnership to help inform the review and update of the mission statement, goals and objectives. Table F-1 summarizes the Steering Committee review and evaluation of the 2016 HMP goals and objectives. In summary, all goals were maintained; however, the objectives were enhanced to include protection of community lifelines, increase understanding and adaptation to climate change and encourage the use of green infrastructure to align with the North Jersey Transportation Authority (NJTPA) and community priorities. One additional goal was added to address high hazard dams.



Figure F-1. Goal Evaluation

Goal Number	2016 Goal Statement	Goal Evaluation (Keep as is? Change? Add another Goal?)
G-1	Protect Life	Keep
G-2	Protect Property	Keep
G-3	Increase Preparedness and Awareness	Keep
G-4	Develop and Maintain an Understanding of Risks from Hazards	Keep
G-5	Enhance Mitigation Capabilities to Reduce Hazard Vulnerabilities	Keep
G-6	Support Continuity of Operations Pre-, During, and Post- Hazard Events	Keep
G-7	Address Long-Term Vulnerabilities from High Hazard Dams	Add

Figure F-2 Goal and Objective Evaluation

2016 Goal	2016 Objective Statement	Objective Evaluation (Keep as is? Change? Add another Objective?)
Goal 1: Protect life	1.1: Identify the need for, and acquire, any special health and emergency services, training, and equipment to enhance response and recovery capabilities for specific hazards to vulnerable populations	Keep
	1.2: Maintain and enhance local regulatory standards including full and effective building code enforcement, floodplain management and other vulnerability-reducing regulations	Keep
	1.3: Develop, enhance and protect early warning and emergency communications systems	Keep
	1.4: Identify and train non-traditional first responders to increase response capabilities	Keep
Goal 2: Protect property	2.1: Pursue cost-effective mitigation actions to reduce the impacts of hazards on people, property and the economy	Keep
	2.2: Preserve, restore and enhance natural environmental resources including open space and agricultural resources that serve a natural hazard mitigation function	Keep
	2.3: Facilitate the development and timely submittal of project applications meeting state and federal guidelines for funding to reduce the number of repetitive and severe repetitive loss properties and hardening/retrofitting infrastructure, critical facilities and lifelines with identified needs	Add lifelines
	Encourage the use of green stormwater infrastructure to mitigate flooding and improve water quality	Add – NJTPA area of emphasis;



2016 Goal	2016 Objective Statement	Objective Evaluation (Keep as is? Change? Add another Objective?)
Goal 3: Increase preparedness and awareness	3.1: Increase awareness of hazard risks and understanding of the advantages of mitigation to the general public, business and community members, and by local government officials	Keep
	3.2: Increase local government official awareness regarding funding opportunities for mitigation	Keep
	3.3: Provide government officials and local practitioners with educational opportunities and information regarding best practices for hazard mitigation planning, project identification, and implementation	Keep
	3.4: Increase awareness of dam ownership and available mitigation funding for dams	Add to support increased emphasis on high hazard dams, reference new Goal 7
Goal 4: Develop and maintain an understanding of risks from hazards	4.1: Improve data collection and sharing; and increase data availability to the county and municipalities to reduce the impacts of hazards and for use in future planning efforts	Keep
	4.2: Acquire and maintain detailed data regarding critical facilities, lifelines and infrastructure such that these sites can be prioritized and risk-assessed for possible mitigation actions	Add lifelines
	4.3: Continue support of hazard mitigation planning, project identification, and implementation at the municipal and county level	Keep
	Strengthen understanding of, and adaptation to, a changing climate	Add
Goal 5: Enhance mitigation capabilities to reduce hazard vulnerabilities	5.1: Support increased participation in the National Flood Insurance Program Community Rating System	Keep
	5.2: Support increased integration of municipal/county hazard mitigation planning and floodplain management with effective municipal zoning regulation, and effective municipal/county subdivision regulation, and comprehensive planning	Keep
	5.3: Provide user-friendly hazard-data accessibility for mitigation planning, other planning efforts and for private citizens	Keep
	5.4: Provide direct support, where possible, to municipal mitigation programs	Keep
Goal 6: Support continuity of operations pre-, during, and post-hazard events	6.1: Ensure continuity of operations of government, non-government, commerce, private sector, and infrastructure	Keep
	6.2: Support and encourage the implementation of back-up and alternative energy sources	Keep
	6.3: Develop, enhance and identify systems and procedures to help facilitate and prioritize an expedient response during disaster recovery efforts	Keep
Goal 7: Address Long-Term	7.1: Ensure dam infrastructure is maintained	Add
	7.2: Ensure EAPs are maintained and updated	Add



2016 Goal	2016 Objective Statement	Objective Evaluation (Keep as is? Change? Add another Objective?)
Vulnerabilities from High Hazard Dams	7.3: Support the identification and access to funding to repair/replace dams	Add



F.2 MITIGATION STRATEGY WORKSHOP RESOURCES

On November 12, 2020 a Mitigation Strategy Workshop was held for all plan participants. The workshop was held virtually due to coronavirus restrictions and was co-led by the NJOEM Mitigation Unit and the contract consultant. The workshop was supplemented by emails and phone calls between jurisdictions and the contract consultant for all participating jurisdictions to support the development of focused problem statements based on the impacts of natural hazards in the County and their communities.

A Mitigation Strategy Development worksheet was designed and populated with the capability assessment and risk assessment results, identified problem areas mapped using the Survey123 online form (e.g., undersized culverts; flooding outside the FEMA-delineated floodplain), SWOO results, NFIP statistics, and additional questions of concern regarding critical facilities and lifelines (e.g., backup power; flood exposure) to initiate the ‘mitigation strategy conversation’. The information was presented as problem/solution statements linking back to the information identified during the previous planning process phases.

These problem statements were intended to provide a detailed description of the problem area, including its impacts to the municipality/jurisdiction; past damages; loss of service; etc. An effort was made to include the street address of the property/project location, adjacent streets, water bodies, and well-known structures as well as a brief description of existing conditions (topography, terrain, hydrology) of the site. These problem statements formed a bridge between the hazard risk assessment which quantifies impacts to each community with the development of actionable mitigation strategies. Resources available at the workshop and follow up discussions included the following to assist with the identification of mitigation alternatives and the development of the mitigation strategy workshops found in Section 9 (Jurisdictional Annexes).

1. Strengths, Weaknesses, Obstacles and Opportunities exercise results
2. Citizen survey results
3. FEMA Mitigation action types (Table F-2)
4. FEMA Mitigation Ideas
5. Mitigation Catalog for Sussex County (Table F-3)
6. FEMA Project Useful Life factsheet
7. Mitigation funding sources at the federal, state and local levels (Table F-4)
8. Critical facility and lifeline hazard exposure results
9. FEMA Ecosystem Service Benefits in Benefit-Cost Analysis for FEMA’s Mitigation Programs Policy
10. New Jersey Mitigation Resource Guide
11. Sussex Goals and Objectives
12. Sussex NFIP Policy and Repetitive Loss statistics
13. Sussex Types of Mitigation Actions

Plan participants were requested to review the Mitigation Strategy Development worksheet and update with additional problem statements, and potential solutions to inform their meeting with the planning consultant. The returned worksheets are included at the end of this appendix.

F.2.1 Types of Mitigation Actions

A mitigation action is a specific action, project, activity, or process taken to reduce or eliminate long-term risk to people and property from hazards and their impacts. Implementing mitigation actions helps achieve the plan’s mission and goals. The actions to reduce vulnerability to threats and hazards form the core of the plan and are a key outcome of the planning process.

The primary types of mitigation actions to reduce long-term vulnerability are:

- Local Plans and Regulations (LPR)





- Structure and Infrastructure Projects (SIP)
- Natural Systems Protection (NSP)
- Education and Awareness Programs (EAP)

Table F-2. FEMA Mitigation Action Types

Mitigation Type	Description	Examples
Local Plans and Regulations	These actions include government authorities, policies, or codes that influence the way land and buildings are developed and built.	Comprehensive plans Land use ordinances Subdivision regulations Development review Building codes and enforcement NFIP Community Rating System Capital improvement programs Open space preservation Stormwater management regulations and master plans
Structure and Infrastructure Projects	<p>These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure.</p> <p>This type of action also involves projects to construct manmade structures to reduce the impact of hazards.</p> <p>Many of these types of actions are projects eligible for funding through the FEMA Hazard Mitigation Assistance program.</p>	<p>Acquisitions and elevations of structures in flood prone areas</p> <p>Utility undergrounding</p> <p>Structural retrofits</p> <p>Floodwalls and retaining walls</p> <p>Detention and retention structures</p> <p>Culverts</p> <p>Safe rooms</p>
Natural Systems Protection	These are actions that minimize damage and losses and also preserve or restore the functions of natural systems.	<p>Sediment and erosion control</p> <p>Stream corridor restoration</p> <p>Forest management</p> <p>Conservation easements</p> <p>Wetland restoration and preservation</p>
Education and Awareness Programs	These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady or Firewise Communities. Although this type of mitigation reduces risk less directly than structural projects or regulation, it is an important foundation. A greater understanding and awareness of hazards and risk among local officials, stakeholders, and the public is more likely to lead to direct actions.	<p>Radio or television spots</p> <p>Websites with maps and information</p> <p>Real estate disclosure</p> <p>Presentations to school groups or neighborhood organizations</p> <p>Mailings to residents in hazard-prone areas</p> <p>StormReady</p> <p>Firewise Communities</p>

F.2.2 Mitigation Catalog

Table F-3 presents mitigation alternatives organized by hazard of concern at the personal, corporate and government scale.



DAM FAILURE		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> • Manipulate the hazard: <ul style="list-style-type: none"> ○ None • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Relocate out of dam failure inundation areas • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Elevate home to appropriate levels • Build local capacity to respond to or prepare for the hazard: <ul style="list-style-type: none"> ○ Learn about risk reduction for the dam failure hazard ○ Learn the evacuation routes for a dam failure event ○ Educate yourself on early warning systems and the dissemination of warnings 	<ul style="list-style-type: none"> • Manipulate the hazard: <ul style="list-style-type: none"> ○ Remove dams ○ Harden dams • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Replace earthen dams with hardened structures • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Floodproof facilities within dam failure inundation areas • Build local capacity to respond to or prepare for the hazard: <ul style="list-style-type: none"> ○ Educate employees on the probable impacts of a dam failure ○ Develop a continuity of operations plan 	<ul style="list-style-type: none"> • Manipulate the hazard: <ul style="list-style-type: none"> ○ Remove dams ○ Harden dams • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Replace earthen dams with hardened structures ○ Relocate critical facilities out of dam failure inundation areas ○ Consider open space land use in designated dam failure inundation areas • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Adopt higher floodplain standards in mapped dam failure inundation areas ○ Retrofit critical facilities within dam failure inundation areas • Build local capacity to respond to or prepare for the hazard: <ul style="list-style-type: none"> ○ Map dam failure inundation areas ○ Enhance emergency operations plans to include a dam failure component ○ Institute monthly communications checks with dam operators ○ Inform the public on risk reduction techniques ○ Adopt real-estate disclosure requirements for the re-sale of property located within dam failure inundation areas ○ Consider the probable impacts of climate change in assessing the risk associated with the dam failure hazard



DAM FAILURE		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">○ Establish early warning capability downstream of listed high-hazard dams○ Consider the residual risk associated with protection provided by dams in future land use decisions



DISEASE OUTBREAK		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none">• Manipulate the Hazard:<ul style="list-style-type: none">○ None• Reduce exposure to the hazard:<ul style="list-style-type: none">○ Proper hygiene○ PPE○ Social distancing• Reduce vulnerability to the hazard:<ul style="list-style-type: none">○ Focus on personal health• Increase Capability<ul style="list-style-type: none">○ Storage of PPE○ Storage of supplies and food to reduce need to enter public spaces	<ul style="list-style-type: none">• Manipulate the Hazard:<ul style="list-style-type: none">○ None• Reduce exposure to the hazard:<ul style="list-style-type: none">○ PPE○ Social distancing• Reduce vulnerability to the hazard:<ul style="list-style-type: none">○ Distanced work environment○ Regular cleaning of work environment• Increase Capability:<ul style="list-style-type: none">○ Storage of PPE○ Equipment for monitoring○ Trainings for staff	<ul style="list-style-type: none">• Manipulate the Hazard:<ul style="list-style-type: none">○ None• Reduce exposure to the hazard:<ul style="list-style-type: none">○ PPE○ Social distancing• Reduce vulnerability to the hazard:<ul style="list-style-type: none">○ Distanced work environment○ Regular cleaning of work environment• Increase Capability:<ul style="list-style-type: none">○ Storage of PPE○ Equipment for monitoring/treatment○ Trainings for staff○ Public outreach



DROUGHT		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ None • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Consider stored water/captured water techniques during dry seasons. ○ Establishing an irrigation time/scheduling program or process so that all agricultural land gets the required amount of water. Through incremental timing, each area is irrigated at different times so that all water is not consumed at the same time. Spacing usage may also help with recharge of groundwater. • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Drought resistant landscapes ○ Reduce water system losses ○ Regularly check for leaks to minimize water supply losses ○ Install low-flow water saving showerheads and toilets ○ Turn water flow off while brushing teeth or during other cleaning activities ○ Adjust sprinklers to water the lawn and not the sidewalk or street. ○ Run the dishwasher and washing machine only when they are full. 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ None • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Consider stored water/captured water techniques during dry seasons. • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Drought resistant landscapes ○ Reduce private water system losses ○ Identify alternate water supply sources. ○ Install low-flow water saving showerheads and toilets ○ Adjust sprinklers to water the lawn and not the sidewalk or street. • Increase Capability: <ul style="list-style-type: none"> ○ Practice active water conservation ○ Develop a COOP ○ Create a water conservation plan. 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ Ground Water Recharge through stormwater management ○ Implement cloud seeding techniques during dry seasons. • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Identify and create ground water back up sources. ○ Create /identify new impounded water supply points. ○ Developing new or upgrading existing water delivery systems to eliminate breaks and leaks. • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Water use conflict regulations ○ Reduce water system losses ○ Distribute water saving kits ○ Identify sites ideally suited for ground water recharge. ○ Implement stormwater retention in regions ideally suited for groundwater recharges. ○ Utilize drought resistant landscapes on community owned facilities. ○ Encourage citizens to take water-saving measures • Increase Capability: <ul style="list-style-type: none"> ○ Public education on drought resistance ○ Identify alternative water supplies for time of drought.



DROUGHT

- Check for leaks in plumbing or dripping faucets.
- Install rain-capturing devices for irrigation.
- Install graywater systems in homes to encourage water reuse.
- Rotate crops by growing a series of different types of crops on the same fields every season to reduce soil erosion.
- Planting “cover crops,” such as oats, wheat, and buckwheat, to prevent soil erosion.
- **Increase Capability**
 - Practice active water conservation techniques.
 - Seek ways to operate wells in such a way to enhance their functional longevity and supply capability.

- Mutual aid agreements with alternative suppliers.
- Develop a drought contingency plan
- Develop criteria-"triggers" for drought related actions
- Improve accuracy of water supply forecasts
- Provide incentives to influence active water conservation techniques such as water user rate reductions.
- Consider providing incentives to property owners that utilize drought resistant landscapes in the design of their homes.
- Use of water buffalo tankers
- Promote well usage techniques that strive to enhance functional longevity and supply capability of private water supply wells.
- Develop an ordinance to restrict the use of public water resources for non-essential usage, such as landscaping, washing cars, filling swimming pools, etc.



EARTHQUAKE		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ None • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Locate outside of hazard area (off soft soils) • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Retrofit structure (anchor house structure to foundation) ○ Secure household items that can cause injury or damage such as water heaters, bookcases, and other appliances ○ Build to higher design standards • Increase Capability <ul style="list-style-type: none"> ○ Practice "drop, cover and hold" ○ Develop household mitigation plan, such as creating a retrofit savings account, communication capability with outside, 72 hr. self-sufficiency during an event ○ Increase capability by having cash reserves for reconstruction ○ Become informed on the hazard and risk reduction alternatives available. ○ Develop a post-disaster action plan for your household. 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ None • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Locate/relocate mission critical functions outside hazard area where possible. • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Build redundancy for critical functions/facilities ○ Retrofit critical buildings/areas housing mission critical functions. • Increase Capability: <ul style="list-style-type: none"> ○ Adopt higher standard for new construction -- Consider "performance-based design" when building new structures ○ Increase capability by having cash reserves for reconstruction ○ Inform your employees on the possible impacts of earthquake and how to deal with them at your work facility. ○ Develop a Continuity of Operations Plan (COOP) 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ None • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Locate critical facilities or functions outside of hazard area where possible. • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Harden infrastructure ○ Provide redundancy for critical functions ○ Adopt higher regulatory standards for structures ○ Conduct "rapid screening" programs for critical facilities to identify facilities that may be particularly prone to EQ damage, then develop investigation/action plans to address such structures • Increase Capability: <ul style="list-style-type: none"> ○ Provide better hazard maps ○ Provide technical information and guidance ○ Enact tools to help manage development in hazard areas: tax incentives, information ○ Include retrofitting/replacement of critical system elements in CIP ○ Develop strategy to take advantage of post disaster opportunities



EARTHQUAKE		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">○ Warehouse critical infrastructure components such as pipe, power line, and road repair material.○ Develop and adopt a Continuity of Operations / Continuity of Government Plan (COOP/COG)○ Initiate triggers guiding improvements such as: (< 50% substantial damage/improvements)○ Further enhance seismic risk assessment to target high hazard buildings for mitigation opportunities.○ Develop a post disaster action plan that includes a grant funding and debris removal components.○ Utilize warning systems○ Educate builders and developers on seismic construction standards



FLOOD		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> ● Manipulate the Hazard: <ul style="list-style-type: none"> ○ Clear stormwater drains and culverts ● Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Locate or re-locate outside of hazard area ○ Institute low impact development techniques on property ● Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Retrofit existing structures and utilities above Base Flood Elevation (BFE) ○ Floodproof existing structures (wet- or dry floodproofing). ○ Store hazardous materials above BFE or outside of floodprone areas ● Increase Capability <ul style="list-style-type: none"> ○ Develop household mitigation plan, such as retrofit savings, communication capability with outside, 72-hr. self-sufficiency during and after an event ○ Buy flood insurance 	<ul style="list-style-type: none"> ● Manipulate the Hazard: <ul style="list-style-type: none"> ○ Clear stormwater drains and culverts ● Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Locate business critical facilities or functions outside hazard area ○ Institute low impact development techniques on property ● Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Build redundancy for critical functions/ retrofit critical buildings. ○ Provide flood-proofing measures when new critical infrastructure must be located in floodplains. ○ Harden structures and infrastructure (wet and dry-floodproofing) ○ Store hazardous materials above BFE or outside of floodprone areas ● Increase Capability <ul style="list-style-type: none"> ○ Increase capability by having cash reserves for reconstruction ○ Develop and adopt a Continuity of Operations Plan (COOP) ○ Solicit 'cost-sharing" through partnerships with private sector stakeholders on projects with multiple benefits. ○ Dam owner/operators should continue to be aware of and understand dam inspection and reporting requirements. ○ Ensure that all dam EAP's are kept in compliance with State Regulations. 	<ul style="list-style-type: none"> ● Manipulate the Hazard: <ul style="list-style-type: none"> ○ Clear stormwater drains and culverts ○ Dredging, levee construction, providing retention areas... ○ Structural flood control: levee's, dams, channelization, revetments. ○ Construct regional stormwater control facilities ○ Lead and develop a county-wide stream clearing strategy including the development of thresholds for response/action. ● Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Locate/re-locate critical facilities outside of hazard area ○ Acquire or relocate identified repetitive loss properties. ○ Promote open space uses in identified high hazard areas via techniques such as: PUD's, easements, setbacks, greenways, sensitive area tracks. ○ Adopt land development criteria such as PUD's, Density transfers, clustering ○ Institute low impact development techniques on property ○ Acquire vacant land or promote open space uses in developing watersheds to control increases in runoff ○ Pass an ordinance to incorporate additional zoning classifications into flood zones within each municipality.



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">○ Increase floodplain standards within municipal ordinances and include provisions for enforcing best practice standards○ Consider increasing minimum freeboard beyond 1' freeboard state requirement○ Continue development application reviews by County Planning Board to reduce risky development practices.● Reduce vulnerability to the hazard:<ul style="list-style-type: none">○ Harden structures and infrastructure (wet and dry-floodproofing)○ Provide redundancy for critical functions and infrastructure○ Adopt appropriate regulatory standards such as cumulative substantial improvement/damage, freeboard, lower substantial damage threshold, compensatory storage.○ Stormwater management regulations and master planning.○ Adopt "no-adverse impact" floodplain management policies that strive to not increase the flood risk on down-stream communities.○ Participate in the Community Rating System (CRS)○ Implement as-built regulatory requirements○ Implement site review ordinances/requirements



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">○ Establish stream maintenance programs with stakeholders (e.g. Soil and Water Conservation District) - support county leads of such efforts○ Incorporate retrofitting/replacement of critical facilities and infrastructure in Capital Improvement Plans (CIPs)○ Promote the use of vegetation/plants as green erosion control measures to reduce localized flooding.○ Work with environmental groups to address removal of debris, log jams, etc. in flood vulnerable stream sections● Increase Capability<ul style="list-style-type: none">○ Produce better hazard maps, and improve access to flood hazard mapping○ Capture/survey "high-water" marks during flood events.○ Provide technical information and guidance on appropriate mitigation options available to businesses and homeowners○ Enact tools to help manage development in hazard areas (stronger controls, tax incentives, information)○ Establish an additional layer of zoning within flood hazard areas○ Develop strategy to take advantage of post disaster opportunities○ Improve compliance with and enforcement of the NFIP



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">○ Develop mitigation partnerships with regional stakeholders○ Join Community Rating System (CRS) program, or improve level of participation in CRS○ Develop and implement a public information strategy for flood hazard awareness, flood insurance (NFIP) and mitigation○ Maintain existing data as well as gather new data needed to define risks and vulnerability.○ Create a building and elevation inventory of structures in the floodplain○ Identify flood prone areas that may be in need of new flood studies○ Establish a program to identify and educate owners of flood-prone properties of potential mitigation options (e.g. elevations, relocations)○ Charge a hazard mitigation fee on all new permits to create a hazard mitigation funding source for initiatives or grant cost share requirements.○ Integrate floodplain management policies into other planning mechanisms within the planning area.○ Establish a Stormwater Utility to deal with urban drainage/flooding issues○ Establish incentives to promote flood hazard mitigation of private property (e.g. permit fee waivers).



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">○ Adopt ordinances/standards for cumulative damages and/or improvements○ Upgrade NFIP Floodplain ordinance, as well as other ordinances to current or above current state and federal standards.○ Develop and adopt a COOP○ Join "Storm Ready" Program○ Participate in county and regional training programs○ Provide additional training/certification to NFIP floodplain administrators and code officials.○ Implement annual training to account for turnover of municipal officials.○ Maintain and enhance flood forecasting ability, including the establishment and maintenance of critical stream gages○ Explore grant funding opportunities and potential partnerships to help maintain existing gages and install additional gages to improve forecasting and flood warning ability.○ Promote awareness and participation in alert systems○ Support and participate in regional flood management efforts○ Support and implement hazard disclosure for the sale/re-sale of property in identified risk zones.



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">○ Provide continued and enhanced training for emergency responders○ Establish a revolving "bank" or budget line item to fund grant application support○ Continue to review updated Flood Insurance Rate Maps to ensure accuracy as well as maintaining lines of communication with homeowners to make them aware of potential changes related to their property status.○ Provide trainings for FPA's on the NFIP/Floodplain Best Practices and also pursue CFM accreditation for municipal FPA's.○ Build and maintain relationships to develop regional watershed/floodplain mitigation solutions.○ Pursue grant funding opportunities to fund repairs of catchments and infrastructure on a proactive basis.○ Explore grant funding opportunities related to climate change to fund mitigation projects.



GEOLOGICAL HAZARDS

Personal Scale

- **Manipulate the Hazard:**
 - Apply soil stabilization measures, such as planting soil stabilizing vegetation on steep slopes
- **Reduce exposure to the hazard:**
 - None
- **Reduce vulnerability to the hazard:**
 - None
- **Increase Capability**
 - None

Corporate Scale

- **Manipulate the Hazard:**
 - None
- **Reduce exposure to the hazard:**
 - None
- **Reduce vulnerability to the hazard:**
 - None
- **Increase Capability:**
 - None

Government Scale

- **Manipulate the Hazard:**
 - Implement reinforcement measures in high-risk areas
 - Use debris flow measures that may reduce damage in sloping areas, such as stabilization, emergency dissipation, and flow control measures
 - Apply soil stabilization measures, such as planting soil stabilizing vegetation on steep, publicly owned slopes
- **Reduce exposure to the hazard:**
 - Consider hazard areas in land-use planning, zoning and development siting
 - Acquire structures in highest hazard areas (demolish and convert to restricted open space)
 - Relocation of Structures
 - Open Space Preservation
 - Create or increase setback limits on parcels near high-risk parcels
- **Reduce vulnerability to the hazard:**
 - Consider hazard areas in land-use planning and development siting
 - Stabilize vulnerable slopes near structures and infrastructure.
 - Work with stakeholders such as USGS to develop appropriate risk reduction strategies.
 - Install catch-fall nets for rocks at steep slopes near roadways
- **Increase Capability:**
 - Increase understanding of hazard





GEOLOGICAL HAZARDS

Personal Scale	Corporate Scale	Government Scale
		<p>areas (e.g. Landslide Susceptibility Maps) -geotechnical surveys, LIDAR and mapping</p> <ul style="list-style-type: none">○ Assessing vegetation in wildfire-prone areas to prevent landslides after fires (e.g. encourage plants with strong root systems)○ Work with stakeholders such as USGS to develop appropriate risk reduction strategies.○ Support and implement hazard disclosure for the sale/re-sale of property in identified risk zones○ Develop county-level programs to document slide events (landslide inventory), and maintain its currency



HAZARDOUS MATERIALS

Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ Identify and eliminate sources of potential hazardous material spills • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Increase distance between hazardous material sites and development • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ None • Increase Capability <ul style="list-style-type: none"> ○ Personal planning for potential event 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ Identify and eliminate sources of potential hazardous material spills • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ None • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ None • Increase Capability: <ul style="list-style-type: none"> ○ Increase inspection of hazardous material facilities and transport vehicles ○ Conduct training for response 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ Identify and eliminate sources of potential hazardous material spills • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ Increase inspection of hazardous material facilities and transport vehicles • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ None • Increase Capability: <ul style="list-style-type: none"> ○ Increase inspection of hazardous material facilities and transport vehicles ○ Conduct training for response ○ Public outreach



INFESTATION AND INVASIVE SPECIES

Personal Scale

Corporate Scale

Government Scale

- **Manipulate the Hazard:**
 - Participate in quarantine, control, or eradication programs.
- **Reduce exposure to the hazard:**
 - Comply with harmful algal bloom rules and regulations to minimize the exposure to HAB
- **Reduce vulnerability to the hazard:**
 - Form citizen action groups to promote awareness and best practices on local levels.
- **Increase Capability**
 - Regularly check the NJ DEP HAB and Invasive Species information page for updated information.
 - Comply with Invasive Species rules and regulations to minimize the chance for invasive species to spread.
 - Broaden collaborations focused on ecosystem restoration and ecosystem-based management.

- **Manipulate the Hazard:**
 - None
- **Reduce exposure to the hazard:**
 - None
- **Reduce vulnerability to the hazard:**
 - None
- **Increase Capability:**
 - Build and maintain partnerships with government agencies, academia, and stakeholders to coordinate information sharing, and response for Invasive Species and Harmful Algal Blooms throughout the county/region.

- **Manipulate the Hazard:**
 - Work with Federal/State agencies on quarantine, control, or eradication programs for invasive species.
- **Reduce exposure to the hazard:**
 - Create/disseminate planting guides which explain which types of plants and vegetation are safe to plant within the county.
- **Reduce vulnerability to the hazard:**
 - Pass municipal ordinances to enforce best practices for invasive species at the local level.
- **Increase Capability:**
 - Build and maintain partnerships with other stakeholders to coordinate information sharing, and response for Invasive Species throughout the county/region.
 - Work with federal/state agencies to disseminate information to local municipalities regarding Invasive Species from the NJ DEP and US EPA
 - Disseminate information to the general public to educate them on Invasive Species
 - Work with stakeholders to identify and expand resources for prevention and early detection of invasive species.
 - Broaden collaborations focused on ecosystem restoration and ecosystem-based management."





INFESTATION AND INVASIVE SPECIES		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">○ Build ecological restoration planning into IS management projects.



SEVERE WEATHER/HURRICANE/NOR'EASTER

Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ None • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ None • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Retrofit structures (improved roofing, glazing, insulation, etc.) ○ Provide for redundant heat and power ○ Contact municipality or utilities to trim or remove trees that could affect power lines ○ Plant appropriate trees near home and power lines ("Right tree, right place" National Arbor Day Foundation Program. • Increase Capability <ul style="list-style-type: none"> ○ Improve awareness of impending severe weather (e.g. obtain a NOAA weather radio) ○ Promote 72-hour self-sufficiency ○ Provide for redundant heat and power 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ None • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ None • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Relocate critical infrastructure, such as power lines, underground ○ Reinforce or relocate critical infrastructure such as powerlines so that it meets performance expectations. • Increase Capability: <ul style="list-style-type: none"> ○ Contact municipality or utilities to trim or remove trees that could affect power lines ○ Create redundancy (e.g. backup generators) ○ Improve awareness of impending severe weather (e.g. obtain a NOAA weather radio) ○ Develop a Continuity of Operations Plan (COOP) ○ Monitor impending storm events so that you can release employees in such a manner as to not negatively impact emergency response personnel/services. 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> ○ None • Reduce exposure to the hazard: <ul style="list-style-type: none"> ○ None • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> ○ Harden infrastructure such as locating utilities underground. ○ Trimming trees back from power lines ○ Designate and strengthen critical road sections and bridges. ○ Adopt ordinances that regulate the type and quantity of trees planted near utility lines ○ Relocate critical infrastructure, such as power lines, underground • Increase Capability: <ul style="list-style-type: none"> ○ Support programs such as "Tree Watch" that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc. ○ Enforce building codes ○ Increase communication alternatives ○ Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors. ○ Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines ○ Promote awareness and participation in alert systems





SEVERE WEATHER/HURRICANE/NOR'EASTER		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">○ Provide NOAA weather radios to the public○ Create/Enhance "mutual aid" agreements for response to all emergencies○ Create/identify evacuation routes to be utilized during severe storm events.○ Develop debris management plans.○ Join "Storm-Ready" program○ Provide early warning of impending severe storm events to identified critical or essential facilities. This would include facilities such as large employments centers, schools, hospitals○ Promote emergency power supplies to private property.○ Improve, expand or harden communications facilities and services○ Recruit additional emergency personnel or use mutual aid agreements○ Increase sheltering capabilities○ Increase capability to respond to power outages and downed power lines. Establish partnerships with utility providers through pro-active planning.



SEVERE WINTER WEATHER/NOR'EASTER

Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> • <i>Manipulate the Hazard:</i> <ul style="list-style-type: none"> ○ None • <i>Reduce exposure to the hazard:</i> <ul style="list-style-type: none"> ○ Plant appropriate trees near home and power lines (“Right tree, right place” National Arbor Day Foundation) • <i>Reduce vulnerability to the hazard:</i> <ul style="list-style-type: none"> ○ Insulate House to provide greater thermal efficiency and reduce heat loss. ○ Provide redundant heat and power ○ Insulate Structure ○ Ensure natural gas input/release valves do not get covered in snow • <i>Increase Capability</i> <ul style="list-style-type: none"> ○ Trim or remove trees that could affect power lines ○ Prepare emergency food and supplies to be self-sufficient for at least 72 hours in the event of a severe winter storm. ○ Be aware of inclement weather conditions and move your vehicles off of the street as severe weather systems approach. ○ Retrofit structures 	<ul style="list-style-type: none"> • <i>Manipulate the Hazard:</i> <ul style="list-style-type: none"> ○ None • <i>Reduce exposure to the hazard:</i> <ul style="list-style-type: none"> ○ None • <i>Reduce vulnerability to the hazard:</i> <ul style="list-style-type: none"> ○ Relocate critical infrastructure, such as power lines, underground ○ Reinforce or relocate critical infrastructure such as powerlines so that it meets performance expectations. ○ Install tree wire • <i>Increase Capability:</i> <ul style="list-style-type: none"> ○ Trim or remove trees that could affect power lines ○ Create redundancy in utilities and communications ○ Develop a Continuity of Operations Plan (COOP) to address operations before, during and after coastal storm events. ○ Utilize weather radios at the work place to keep your employees aware of severe weather conditions. 	<ul style="list-style-type: none"> • <i>Manipulate the Hazard:</i> <ul style="list-style-type: none"> ○ None • <i>Reduce exposure to the hazard:</i> <ul style="list-style-type: none"> ○ None • <i>Reduce vulnerability to the hazard:</i> <ul style="list-style-type: none"> ○ Harden infrastructure such as locating utilities underground where appropriate. ○ Trimming trees back from power lines ○ Designate snow routes and strengthen critical road sections and bridges. ○ Adopt codes and regulations that address the issues of parking of vehicles along roadways during severe weather events. ○ Develop or enhance the capacity/capability of stormwater conveyance systems. ○ Provide backup power sources at vital critical facilities. • <i>Increase Capability:</i> <ul style="list-style-type: none"> ○ Support programs that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc. ○ Establish and enforce building codes that require all roofs to withstand snow loads--Develop/Improve/Enforce building Codes in Hazard Areas ○ Increase communication alternatives ○ Modify land use and environmental regulations to support vegetation



SEVERE WINTER WEATHER/NOR'EASTER

Personal Scale	Corporate Scale	Government Scale
		<p>management activities that improve reliability in utility corridors.</p> <ul style="list-style-type: none"> ○ Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines ○ Provide weather radios to vulnerable populations ○ Enhance public awareness campaigns to address those issues of alert and warning and actions to take during severe weather events. ○ Utilize the best available technology to enhance the warning systems for all severe weather events (i.e.: tornado warning systems). ○ Coordinate severe weather warning capabilities and the dissemination of warning amongst those agencies within the planning are with the highest degree of capability. ○ Encourage local ordinances for planting tree near lines and join Tree City USA. ○ Increase tree management programs. ○ Join the Community Rating System ○ Join "Storm-Ready" ○ Retrofit critical structures and promote hazard resistant construction ○ Keep open communications and education of hazards for mobile home communities



SEVERE WINTER WEATHER/NOR'EASTER		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">○ Retrofit above-ground utilities to underground facilities if appropriate○ Create a salt reserve or research alternates to stretch salt reserve.○ Ensure accessibility to hospitals.○ Provide better debris logistics and removal.○ Provide better communication systems and back-up communication systems to inform public of hazards and to communicate during the hazard event.



WILDFIRE

Personal Scale

- **Manipulate the Hazard:**
 - Clear potential fuels on property; dry, overgrown underbrush; diseased trees
- **Reduce exposure to the hazard:**
 - Clean and maintain defensible space around structures
 - Locate outside hazard area
 - Mow regularly
- **Reduce vulnerability to the hazard:**
 - Create and maintain defensible space around structures, provide water on site.
 - Use fire-retardant building materials
 - Create defensible spaces around your home.
- **Increase Capability**
 - Employ Firewise techniques to safeguard your home
 - Identify alternative water supply points proximate to your home such as swimming pools, lakes, streams
 - Support your local fire department
 - Be aware of weather conditions that support/enhance the probability of wildfires

Corporate Scale

- **Manipulate the Hazard:**
 - None
- **Reduce exposure to the hazard:**
 - None
- **Reduce vulnerability to the hazard:**
 - Create and maintain defensible space around structure and infrastructure and provide water onsite
 - Use fire-retardant building materials
 - Provide stored water to be utilized for fire fighting with appropriate fire department connections at facilities not equipped with fire hydrants or inadequate fire hydrant spacing
- **Increase Capability:**
 - Support Firewise community initiatives

Government Scale

- **Manipulate the Hazard:**
 - None
- **Reduce exposure to the hazard:**
 - Clear fuels (dry underbrush, diseased trees) on land that can trigger and maintain wildfires
 - Implement Best Management Practices on public lands
- **Reduce vulnerability to the hazard:**
 - Create and maintain defensible space around structure and infrastructure
 - Higher regulatory standards
 - Establish water main supply and hydrants in unhydranted areas
 - Decrease hydrant spacing
 - Purchase
- **Increase Capability:**
 - More public outreach and education efforts including an active "Firewise" program
 - Identify fire response and alternative evacuation routes
 - Seek alternative water supplies in urban wildland interface areas.
 - Become a "Firewise" community
 - Increase capability to fight wildfires utilizing equipment that can support wildfire fighting such as: tankers, engines with "pump-and-run" capabilities, dump tanks for tanker shuttle operations.





WILDFIRE

Personal Scale

Corporate Scale

Government Scale

- Develop/implement wildfire management plans.
- Establish Mutual Aid Agreements with the Tender Task Force
- Develop a Water Supply Plan





F.1.1 Potential Mitigation Funding Sources

While it is important to recognize the mitigation strategies for each jurisdiction to help achieve the mitigation goals and objectives of the HMP, it is also important to provide sources for funding to implement these strategies. The table below provides a list of programs, descriptions, and links for those seeking funding sources. Please note that this table is not intended to be a comprehensive list, but rather a starting point to help identify potential sources of funding for the identified mitigation strategies.

F.4 Potential Mitigation Funding Sources

Program	Description	Lead Agency	Website
Federal			
Hazard Mitigation Assistance (HMA)	Grants to provide funding for eligible mitigation activities that reduce disaster losses and protect life and property from future disaster damages – includes FMA, HMGP, PDM	FEMA	https://www.fema.gov/hazard-mitigation-assistance
Flood Mitigation Assistance (FMA)	Grants to States, communities, tribes and territories for pre-disaster mitigation planning and projects to help reduce or eliminate the long-term risk of flood damage to structures insurable under the National Flood Insurance Program	FEMA	https://www.fema.gov/flood-mitigation-assistance-grant-program
Hazard Mitigation Grant Program (HMGP)	Grants to States, communities, tribes and territories for planning and projects providing long-term hazard mitigation measures following a major disaster declaration	FEMA	https://www.fema.gov/hazard-mitigation-grant-program
Building Resilient Infrastructure and Communities (BRIC) Grant Program	Grants to States, communities, tribes and territories for reducing the risks they face from disasters and natural hazards. This is a new program (2020) with the following guiding principles: through capability- and capacity-building; encouraging and enabling innovation; promoting partnerships; enabling large projects; maintaining flexibility; and providing consistency.	FEMA	https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities
Public Assistance: Hazard Mitigation Funding Under Section 406	Hazard mitigation discretionary funding available under Section 406 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act following a Presidentially declared disaster	FEMA	https://www.fema.gov/news-release/2017/05/03/4309/fema-hazard-mitigation-grants-404-and-406



Program	Description	Lead Agency	Website
Assistance to Firefighters Grant Program	The primary goal of the Assistance to Firefighters Grants (AFG) is to enhance the safety of the public and firefighters with respect to fire-related hazards by providing direct financial assistance to eligible fire departments, nonaffiliated Emergency Medical Services organizations, and State Fire Training Academies. This funding is for critically needed resources to equip and train emergency personnel to recognized standards, enhance operations efficiencies, foster interoperability, and support community resilience.	FEMA	https://www.fema.gov/welcome-assistance-firefighters-grant-program
High Hazard Potential Dams (HHPD) Rehabilitation Grant	The Rehabilitation of High Hazard Potential Dams Grant Program (HHPD) provides technical, planning, design, and construction assistance in the form of grants to non-Federal governmental organizations or nonprofit organizations for rehabilitation of eligible high hazard potential dams.	FEMA	https://www.grants.gov/web/grants/view-opportunity.html?oppId=316238
Fire Management Assistance Grant Program	Assistance for the mitigation, management, and control of fires on publicly or privately-owned forests or grasslands that threaten such destruction as would constitute a major disaster. Provides a 75% Federal cost share and the State pay the remaining 25% for actual cost.	FEMA	https://www.fema.gov/fire-management-assistance-grant-program
Disaster Housing Program	Emergency assistance for housing, including minor repair of home to establish livable conditions, mortgage and rental assistance	HUD	https://www.hud.gov/program_offices/public_indian_housing/publications/dhap
HOME Investment Partnerships Program	Grants to local and state government and consortia for permanent and transitional housing, (including financial support for property acquisition and rehabilitation for low income persons)	HUD	https://www.hud.gov/program_offices/comm_planning/affordablehousing/programs/home/
HUD Disaster Recovery Assistance	Grants to fund gaps in available recovery assistance after disasters (including mitigation)	HUD	https://www.hud.gov/info/disasterresources
Section 108 Loan Guarantee	Enables states and local governments participating in the Community Development Block Grant (CDBG) program	HUD	https://www.hudexchange.info/programs/section-108/



Program	Description	Lead Agency	Website
	to obtain federally guaranteed loans for disaster-distressed areas		
Smart Growth Implementation Assistance (SGIA) program	The SGIA program focuses on complex or cutting-edge issues, such as stormwater management, code revision, transit-oriented development, affordable housing, infill development, corridor planning, green building, and climate change. Applicants can submit proposals under 4 categories: community resilience to disasters, job creation, the role of manufactured homes in sustainable neighborhood design or medical and social service facilities siting.	EPA	https://www.epa.gov/smartgrowth
Partners for Fish and Wildlife	Financial and technical assistance to private landowners interested in pursuing restoration projects affecting wetlands and riparian habitats	U.S. Fish and Wildlife Service	https://www.fws.gov/partners/
FHWA Emergency Relief Program	Fund for the repair or reconstruction of Federal-aid highways that have suffered serious damage as a result of (1) natural disasters or (2) catastrophic failures from an external cause	U.S. Department of Transportation (DOT)	https://www.fhwa.dot.gov/programadmin/erelief.cfm
Transportation Investment Generating Economic Recovery (TIGER)	Investing in critical road, rail, transit and port projects across the nation	U.S. DOT	https://www.transportation.gov/tags/tiger-grants
Community Facilities Direct Loan & Grant Program	This program provides affordable funding to develop essential community facilities in rural areas. An essential community facility is defined as a facility that provides an essential service to the local community for the orderly development of the community in a primarily rural area, and does not include private, commercial or business undertakings.	USDA	https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program
Emergency Loan Program	USDA's Farm Service Agency (FSA) provides emergency loans to help producers recover from production and physical losses due to drought, flooding, other natural disasters or quarantine	USDA	https://www.fsa.usda.gov/programs-and-services/farm-loan-programs/emergency-farm-loans/index



Program	Description	Lead Agency	Website
Emergency Watershed Protection (EWP) program	Provide assistance to relieve imminent hazards to life and property caused by floods, fires, drought, windstorms, and other natural occurrences	NRCS	https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/landscape/ewpp/
Financial Assistance	Financial assistance to help plan and implement conservation practices that address natural resource concerns or opportunities to help save energy, improve soil, water, plant, air, animal and related resources on agricultural lands and non-industrial private forest land	NRCS	https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/
Emergency Management Performance Grants (EMPG) Program	Assist local, tribal, territorial, and state governments in enhancing and sustaining all-hazards emergency management capabilities	U.S. DHS	https://www.fema.gov/emergency-management-performance-grant-program
Reimbursement for Firefighting on Federal Property	Provides reimbursement only for direct costs and losses over and above normal operating costs.	U.S. DHS	https://www.usfa.fema.gov/grants/firefighting_federal_property.html
Department of Homeland Security Grant Program (HSGP)	HSGP is composed of three interconnected grant programs including the State Homeland Security Program (SHSP), Urban Areas Security Initiative (UASI), and the Operation Stonegarden (OPSG). Together, these competitive grant programs fund a range of preparedness activities, including planning, organization, equipment purchase, training, exercises, and management and administration.	U.S. DHS	https://www.dhs.gov/homeland-security-grant-program-hsgp
Land & Water Conservation Fund	Matching grants to states and local governments for the acquisition and development of public outdoor recreation areas and facilities (as well as funding for shared federal land acquisition and conservation strategies)	National Park Service	https://www.nps.gov/subjects/lwcf/index.htm
Land and Water Conservation Fund	Funding to states, local and conservation organizations for outdoor recreational development, renovation, land acquisition, and planning.	U.S. Department of the Interior	https://www.doi.gov/lwcf
USSBA	Small Business Administration (SBA) provides low-interest disaster loans to homeowners, renters, business of all sizes,	Small Business	https://www.sba.gov/funding-programs/disaster-assistance



Program	Description	Lead Agency	Website
	and most private nonprofit organizations. SBA disaster loans can be used to repair or replace the following items damaged or destroyed in a declared disaster: real estate, personal property, machinery and equipment, and inventory and business assets.	Administration (SBA)	
State			
Environmental Infrastructure Financing Program	Qualified borrowers receive loans in two equal parts: Approximately one half to three quarters comes from a 0-interest State Revolving Fund maintained by the NJDEP. The other portion comes from proceeds of highly rated tax-exempt revenue bonds sold by the Trust. Combining these two funds results in a loan that is 50 to 75% lower than traditional loan rates.	NJDEP	
New Jersey Green Acres Program	It is financed with Garden State Preservation Trust funds through three partnering agencies: The Green Acres Program, a division of the Department of Environmental Protection to preserve natural lands and recreational parks. The Farmland Preservation Program is administered by the independent State Agriculture Development Committee to acquire the development rights on privately owned farmland. Historic Preservation Program is administered by the independent New Jersey Historic Trust to provide matching grants to save important historic buildings.	NJDEP	https://www.nj.gov/dep/greenacres/
New Jersey Blue Acres Program	The Blue Acres Program is the part of New Jersey's Green Acres Program that purchases floodprone properties. Properties (including structures) that have been damaged by, or may be prone to incurring damage caused by, storms or storm-related flooding, or that may buffer or protect other lands from such damage, are eligible for acquisition	NJDEP	https://www.nj.gov/dep/greenacres/blue_flood_ac.html
New Jersey Small Cities Communities	Provide funds for economic development, housing rehabilitation, community revitalization, and public facilities	NJDCA	https://www.nj.gov/dca/divisions/dhcr/offices/neighborhood.html





Program	Description	Lead Agency	Website
Development Block Grants	designated to benefit people with low and moderate incomes, or to address recent local needs for which no other source of funding is available to non-entitlement counties and municipalities.		
New Jersey Conservation Foundation (NJCF)	NJCF is a private, not-for-profit organization. Through acquisition and stewardship, NJCF protects strategic lands, promotes strong land use policies, and forges partnerships to achieve conservation goals. Grants to help fund preservation activities.	NJCF	https://www.njconservation.org/what-we-do/
The New Jersey Infrastructure Bank	Two programs provide and administer low interest rate loans to qualified municipalities, counties, regional authorities, and water purveyors in New Jersey. Approximately \$350 million is awarded annually. <ol style="list-style-type: none"> 1. New Jersey Environmental Infrastructure Trust (NJEIT) for the purpose of financing water quality infrastructure projects that enhance ground and surface water resources, ensure the safety of drinking water supplies, protect the public health and make possible responsible and sustainable economic development. 2. The New Jersey Transportation Infrastructure Bank (NJTIB) is an independent State Financing Authority responsible for providing and administering low interest rate loans to qualified municipalities, counties, and regional authorities in New Jersey for the purpose of financing transportation quality infrastructure projects. 	NJDEP	https://www.njib.gov/
Drinking Water State Revolving Fund (DWSRF)	The DWSRF program assists water systems in financing the cost of infrastructure through the use of federal and New Jersey Infrastructure Trust funds. Additionally, the Water Supply program provides operator licensing and training support as well as financial assistance through the DWSRF program.	NJDEP	https://www.state.nj.us/dep/watersupply/dws_loans.html



Program	Description	Lead Agency	Website
New Jersey Water Bank	New Jersey Water Bank - NJWB (formerly New Jersey Environmental Infrastructure Financing Program - NJEIFP) is a partnership between the New Jersey Department of Environmental Protection (NJDEP) and the New Jersey Environmental Infrastructure Trust (Trust) to provide low cost financing for the design, construction, and implementation of projects that help protect and improve water quality and help ensure safe and adequate drinking water.	NJDEP	https://www.nj.gov/dep/dwq/mface_njeifp.htm
NJ Highlands	Highlands Regional Master Plan (RMP) grant funding for forest resource and stream corridor protection and management planning includes the identification of restoration, mitigation, and stewardship programming needs and mechanisms.	The New Jersey Highlands	https://www.highlands.state.nj.us/njhighlands/grantprograms/
New Jersey Department of Transportation (NJDOT)	Funding of the Program is typically federal through the Federal Highway Administration or State through the Transportation Trust Fund.	NJDOT	https://www.state.nj.us/transportation/business/localaid/funding.shtm
New Jersey Department of Transportation – Local Aid Program	Annually, local aid programs provide approximately \$400 million in a combination of federal and state transportation trust fund funding. The Transportation Trust Fund for FY 2017 thru 2024 alone provides \$310 million in state aid to municipalities and counties for local transportation improvements.	NJDOT	https://www.state.nj.us/transportation/business/localaid/funding.shtm
Local Aid and Economic Development	The Transportation Trust Fund and the Safe, Accountable, Flexible, Efficient Transportation Equity Act (SAFE-TEA) legislation provide the opportunity for funding assistance to local governments for road, bridge, and other transportation projects. NJDOT has established a number of local aid programs that provide financial support to counties and municipalities for capital improvements to transportation infrastructure.	NJDOT	https://www.state.nj.us/transportation/business/localaid/



SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development

Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
Brian Kempf (Tetra Tech)
 Phone: (212) 615-3720 E-mail: brian.kempf@tetratech.com

Municipality: Branchville Borough
Name and Title of Individual
Completing Worksheet: Jeff Lewis

Feedback Received on Hazard Rankings

During review of your municipality’s hazard rankings, you have noted the following rankings for the hazards of concern. *REMEMBER, for every high hazard of concern, you will need to develop at least one mitigation action.*

Dam Failure	Disease Outbreak	Drought	Earthquake	Flood	Geologic
Low	Medium	Medium	Low	Medium	Medium

Hazardous Materials	Hurricane and Tropical Storm	Invasive Species	Nor’Easter	Severe Weather	Severe Winter Weather	Wildfire
Medium	High	Medium	High	High	High	Low

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.

Please fill out the following table to note your municipality’s adaptive capacity for each hazard.

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Weak
Disease Outbreak	<i>Weak</i>





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Drought	<i>Stronge</i>
Earthquake	Weak
Flood	<i>Moderate</i>
Geologic	Weak
Hazardous Materials	<i>Moderate</i>
Hurricane and Tropical Storm	<i>Moderate</i>
Invasive Species	<i>Moderate</i>
Nor'Easter	<i>Moderate</i>
Severe Weather	<i>Moderate</i>
Severe Winter Weather	<i>Moderate</i>
Wildfire	<i>Moderate</i>

If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution
Lack of equipment	Continue working will outside resources that are able to help with resources

What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	Solution
Flooding	Being able to properly clear debris from brooks





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development

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
Municipal Building Generator	\$60,000
Well House Portable Generator	\$105,000

Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate, floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution
There are no critical facilities in the Borough in the 100-year or 500-year flood zones.	

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.)





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development

Problem	Solution
There are two repetitive loss properties in the Borough.	Being able to properly clear debris from brooks

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



SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development

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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development

Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
Brian Kempf (Tetra Tech)
 Phone: (212) 615-3720 E-mail: brian.kempf@tetratech.com

Municipality: Frankford Township
Name and Title of Individual
Completing Worksheet: Jeff Lewis OEM

Feedback Received on Hazard Rankings

During review of your municipality’s hazard rankings, you have noted the following rankings for the hazards of concern. *REMEMBER, for every high hazard of concern, you will need to develop at least one mitigation action.*

Dam Failure	Disease Outbreak	Drought	Earthquake	Flood	Geologic
Low	Medium	Medium	Low	Medium	Medium

Hazardous Materials	Hurricane and Tropical Storm	Invasive Species	Nor’Easter	Severe Weather	Severe Winter Weather	Wildfire
Medium	High	Medium	High	High	High	Low

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.

Please fill out the following table to note your municipality’s adaptive capacity for each hazard.

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Weak
Disease Outbreak	Weak





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Drought	<i>Moderate</i>
Earthquake	<i>Weak</i>
Flood	<i>Strong</i>
Geologic	<i>Weak</i>
Hazardous Materials	<i>Moderate</i>
Hurricane and Tropical Storm	<i>Moderate</i>
Invasive Species	<i>Moderate</i>
Nor'Easter	<i>Moderate</i>
Severe Weather	<i>Moderate</i>
Severe Winter Weather	<i>Moderate</i>
Wildfire	<i>Moderate</i>

If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution
Lack of resources	Continue working with Agencies with proper resources

What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	Solution
Power loss	Continue working with power company for proper tree removal

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
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SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development

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Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate, floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution
The Main Library, Culvers Lake Dam, Stinson Pond Dam, No Name #42 Dam, and Sussex County Farm dam are located in the 100-year and 500-year flood hazard area.	Additional protections need Continue dam inspections

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.)

Note: The Town does not have any repetitive loss properties. Are there any floodprone neighborhoods that require flood mitigation?

Problem	Solution





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development

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
----------------	-----------------



SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
 Chris Huch (Tetra Tech)
 Phone: (973) 630-8357 E-mail: chris.huch@tetrattech.com

Municipality: Township of Green
Name and Title of Individual
Completing Worksheet: Mark Zschack, Municipal Clerk

Feedback Received on Hazard Rankings

During review of your municipality’s hazard rankings, you have noted the following rankings for the hazards of concern. *REMEMBER, for every high hazard of concern, you will need to develop at least one mitigation action.*

Dam Failure	Disease Outbreak	Drought	Earthquake	Flood	Geologic
Medium	Medium	Medium	Low	Medium	Low

Hazardous Materials	Hurricane and Tropical Storm	Invasive Species	Nor’Easter	Severe Weather	Severe Winter Weather	Wildfire
Medium	High	Medium	High	High	High	Low

Feedback Received on Adaptive Capacity

During your review of your municipality’s adaptive capacity, you have noted the following capabilities:

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Earthquake	Moderate
Flood	Moderate
Geologic	Moderate
Hazardous Materials	Moderate
Hurricane and Tropical Storm	Moderate
Invasive Species	Moderate
Nor’Easter	Moderate
Severe Weather	Moderate
Severe Winter Weather	Strong
Wildfire	Moderate





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution
No mapping exists of the drainage system in Green Township to help identify and solve problem areas.	Contract with an engineering firm to create detailed mapping of all drainage infrastructure.

What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	Solution
Lake Tranquility properties are inundated with ground water. Power loss due to downed trees.	A drainage study of the entire lake community is warranted. Continue with the current plan to identify and remove trees on municipal property that could affect electric power.

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
Tranquility Post Office Greendell Post Office	The Township owns the property and will consider the installation of a generator. The Township owns the property and will consider the installation of a generator.





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate, floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution
<ul style="list-style-type: none"> • Tranquility Mill Dam • Lake Tranquility Dam • Tranquility Church Dam 	

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
Hunts School Road	Replace undersized drainage pipe
Lake Tranquility infrastructure	Drainage Study

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.)

Note: The Township does not have any repetitive loss properties. Does the Township have any floodprone neighborhoods that require mitigation?

Problem	Solution





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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
Road flooding on Whitehall Road near Washers Pond	The area of flooding will need to be raised approximately eighteen inches (18”) to mitigate the semi-annual flooding.

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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
 Brian Kempf (Tetra Tech)
 Phone: (212) 615-3720 E-mail: brian.kempf@tetrattech.com

Municipality: Hamburg Borough
Name and Title of Individual
Completing Worksheet: Samantha Anello, PE, CME, CFM – Assistant Borough Engineer

Draft Hazard Ranking

The following table represents the calculated rankings for the hazards of concern for the County and 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.

Hazard	Countywide		Municipality			
	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021		
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	High	Low	N	High – No evidence of existing dams being in compliance with Dam Safety Requirements; No Emergency Action Plan for Dam failure
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	High	Low	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	High	Low	Y	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.

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.

Please fill out the following table to note your municipality’s adaptive capacity for each hazard.

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	<i>Weak</i>
Disease Outbreak	<i>Weak</i>
Drought	<i>Moderate</i>
Earthquake	<i>Weak</i>
Flood	<i>Moderate</i>
Geologic	<i>Moderate</i>
Hazardous Materials	<i>Moderate</i>
Hurricane and Tropical Storm	<i>Moderate</i>
Invasive Species	<i>Moderate</i>
Nor’Easter	<i>Moderate</i>
Severe Weather	<i>Moderate</i>
Severe Winter Weather	<i>Moderate</i>
Wildfire	<i>Moderate</i>



SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution
<p>Dam Failure - No evidence of existing dams being in compliance with Dam Safety Requirements; No Emergency Action Plan for Dam failure</p> <p>Disease Outbreak – The Borough does not have their own health department to deal with this issue. They share services and therefore there is limited staffing and capabilities</p> <p>Drought – Reinforcement of the water system is required so water system demands (including fire flow) can be maintained during droughts.</p> <p>Earthquake – The Borough has no policies or procedures for earthquakes. Likelihood is low.</p> <p>Flood – Lacking in emergency response equipment and services to handle floods</p> <p>Hazardous Materials – The Borough has no HazMat unit and relies on the county for this service.</p> <p>Storms (all types) & severe weather – Limited capabilities due to small number of DPW staff. Reinforce and expand the capabilities of the DPW is recommended.</p>	

What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	Solution
<p>Responding to severe weather which may impact not only road infrastructure, but the water and sewer utilities. DPW has limited staff and therefore limited equipment and capabilities.</p>	

Critical Facilities - Backup Power





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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
Need backup generator for shelter at Hamburg Elementary School located on Linwood Avenue. Portable generator for critical facilities that can be mobile and used as needed	

Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate, floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution
Wheatsworth Mill #1 Dam and Wheatsworth Mill #2 Dam are located in the Special Flood Hazard Area.	Dams must be brought into compliance with NJDEP Dam Safety Requirements

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
Limekiln Road – undersized culverts result in periodic road flooding North Governor Haines St – drainage concerns	

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.)

Note: The Town does not have any repetitive loss properties. Are there any floodprone neighborhoods that require flood mitigation?

Problem	Solution





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



N/A	
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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
Monitoring of unaccounted water in the water system so Borough can always meet demands of the system	
Installation of equipment of infrastructure at sanitary pump stations to monitor I/I	

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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



2016 Action Number	Action Description	Responsible Party	Status (In Progress, No Progress, Ongoing Progress, Capability, or Completed)	Include in the 2021 HMP Update?	
				Check if Yes	Enter 2021 HMP Action #
Hamburg-1 (old #1)	Backup generator for shelter at Hamburg Elementary School located on Linwood Avenue.	OEM Coordinator	No Progress	Yes	2020-Hamburg-001
Hamburg-2 (old #2)	Retrofit roof to meet current snow load standards on Hamburg Elementary School located on Linwood Avenue.	School Administrator, Municipal Engineer	In-Progress, 50% complete	Yes	2021-Hamburg-002
Hamburg-3 (revised old #4)	Develop, implement, and facilitate a multi-hazard public awareness program. Provide information on all types of hazards, preparedness and mitigation measures via the Borough website and social media.	OEM Coordinator, in coordination with SCDEM	No Progress	Yes	2021-Hamburg-003
Hamburg-4 (new)	Multi-purpose emergency vehicle to support highways	Borough OEM	No Progress	Yes	2021-Hamburg-004
Hamburg-5 (new)	Purchase Bobcat Skid-Steer to use during debris cleanup operations and post-hazard events.	Borough DPW	No Progress	Yes	2021-Hamburg-005
Hamburg-6 (new)	Create and maintain a plan for adequate road and debris clearing capabilities within the Borough.	Borough DPW	No Progress	Yes	2021-Hamburg-006
Hamburg-7 (new)	Purchase portable generator for critical facilities	Municipal Engineer, OEM Coordinator	No Progress	Yes	2021-Hamburg-007
Hamburg-8 (new)	Utilize the Hazard Mitigation Plan (HMP) when updating the Comprehensive Master Plan; consider including hazard identification, hazard zones risk assessment information, and hazard mitigation goals as identified in the HMP. Further, the findings and recommendation of the HMP will be considered during any	Planning	No Progress	Yes	2021-Hamburg-008





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



2016 Action Number	Action Description	Responsible Party	Status (In Progress, No Progress, Ongoing Capability, or Completed)	Include in the 2021 HMP Update?	
				Check if Yes	Enter 2021 HMP Action #
	future site plan review processes.				
Hamburg-9 (new)	During the Borough's rezoning procedures or update of the zoning ordinance, the Borough will recognize hazard areas as limits on changes to zoning within the municipality.	Borough Administration	No Progress	Yes	2021-Hamburg-009
Hamburg-10 (new)	Prepare and enforce a fire plan for the Borough and recognize the existence of wildfire hazards and identify risk areas based on a vulnerability assessment.	OEM Coordinator	No Progress	Yes	2021-Hamburg-010
Hamburg-11 (new)	The Borough will work with local school districts and assist with community service projects regarding hazards and mitigation.	OEM Coordinator	No Progress	Yes	2021-Hamburg-011
Hamburg-12 (new)	Catch Basin & General Stormwater Facility Maintenance: The continual maintenance of catch basins and stormwater facilities is critical especially before and after large storm events	Borough DPW and Engineer	On Going Capability	Yes	2021-Hamburg-012
Hamburg-13 (new)	Sanitary Sewer Reinforcement: Perform a study to determine where sanitary sewer reinforcement is needed due to most imminent threats of failure or cracking.	Borough Engineer	No Progress	Yes	2021-Hamburg-013
Hamburg-14 (new)	Tree Removal and Maintenance in the Vicinity of Power Lines: Tree removal and maintenance in the vicinity of power lines will help minimize power outages during severe storm events.	Borough DPW	Ongoing	Yes	2021-Hamburg-014





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
Brian Kempf (Tetra Tech)
Phone: (212) 615-3720 E-mail: brian.kempf@tetratech.com

Municipality: Hampton Township
Name and Title of Individual Completing Worksheet: Jessica Caruso & Ed Hayes

Draft Hazard Ranking

The following table represents the calculated rankings for the hazards of concern for the County and 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.

Hazard	Countywide		Municipality			
	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021		
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	High	Low	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	N - LDW	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	High	Low	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	High	Low	N - MED.	

Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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.

Please fill out the following table to note your municipality’s adaptive capacity for each hazard.

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	<i>moderate</i>
Disease Outbreak	<i>moderate</i>
Drought	<i>moderate</i>
Earthquake	<i>moderate</i>
Flood	<i>moderate</i>
Geologic	<i>moderate</i>
Hazardous Materials	<i>moderate</i>
Hurricane and Tropical Storm	<i>strong</i>
Invasive Species	<i>moderate</i>
Nor’Easter	<i>strong</i>
Severe Weather	<i>strong</i>
Severe Winter Weather	<i>strong</i>
Wildfire	<i>moderate</i>

If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution
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SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	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

Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate, floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution
Howell Mill Pond Dam and Balesville Dam both are located in the 100 year and 500 year flood hazard areas.	

Culverts - Undersized/In Need of Upgrade





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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
Ike Williams Rd Dickson Rd Old Swartswood Rd.	

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.)

Note: The Town does not have any repetitive loss properties. Are there any floodprone neighborhoods that require flood mitigation?

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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
 Chris Huch (Tetra Tech)
 Phone: (973) 630-8357 E-mail: chris.huch@tetrattech.com

Municipality: Lafayette Township
Name and Title of Individual
Completing Worksheet: Richard Hughes, Lafayette Emergency Management Coordinator

Feedback Received on Hazard Rankings

During review of your municipality’s hazard rankings, you have noted the following rankings for the hazards of concern. *REMEMBER, for every high hazard of concern, you will need to develop at least one mitigation action.*

Dam Failure	Disease Outbreak	Drought	Earthquake	Flood	Geologic
Low	Medium	Medium	Low	Medium	Low

Hazardous Materials	Hurricane and Tropical Storm	Invasive Species	Nor’Easter	Severe Weather	Severe Winter Weather	Wildfire
High	High	Medium	High	High	High	Low

The Township changed the hazard ranking for hazardous materials from medium to high, noting that two major highways traverse Lafayette, county roads also – major routes for haz mat carriers, Lafayette has limited response capabilities. If the state highway or county road is shutdown (as has happened in the past) then detours go on local roads.

Feedback Received on Adaptive Capacity

During your review of your municipality’s adaptive capacity, you have noted the following capabilities:

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Earthquake	Moderate
Flood	Moderate
Geologic	Moderate
Hazardous Materials	Moderate
Hurricane and Tropical Storm	Moderate
Invasive Species	Moderate
Nor’Easter	Moderate
Severe Weather	Moderate





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Severe Winter Weather	Strong
Wildfire	Moderate

If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution
<ul style="list-style-type: none"> A. Budgetary constraints with hiring additional staff, procuring new equipment, or contracting 3rd party consultants to mitigate, monitor, or correct a hazard B. Budgetary constraints with design and installation of infrastructure improvements to mitigate a hazard C. Do not have subject matter expertise in house within municipality for mitigating a hazard or more detailed planning for the hazard D. Do not have the emergency response resources (as all volunteer) to be trained and available at all times . Reliance on mutual aid, for profit, and county emergency response resources. 	<ul style="list-style-type: none"> A. Ensure we have pre plans in place which rely on mutual aid agreements with municipal and county agencies / departments. The mutual aid Stakeholders would have the subject matter expertise or equipment to assess, plan for, monitor, conduct training, and as needed respond B. Ensure shared service agreements are in place for the resources needed to plan for the hazard, and the equipment, monitoring, PPE, etc. needed for the hazard. C. Suitable facilities that are equipped to effectively be prepared for a hazard.

What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	Solution
Loss of Power which regularly impacts the Municipal Town Hall and the Fire department buildings during severe weather. Budgets and unavailability of natural gas have been obstacles	Installation of suitable sized gas fueled emergency generators at each of the buildings. The Fire Dept is the center for in town emergency response and shelter / warming center along with the location for majority of emergency response equipment. Therefore having reliable emergency power is critical to effective preparedness





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



<p>Flooding and lack of suitably sized equipment for more effective water removal from public areas, businesses, and resident homes</p> <p>Traffic diversion caused by flooding and debris results in increased traffic on local roads, closed businesses, and displaced residents from homes</p> <p>Timely cleanup and removal of debris following a storm over a period of several days can overwhelm internal DPW resources , both man power and equipment.</p>	<p>Procurement of additional smaller generators and water transfer pumps which can be located strategically to remove flood waters and allow for homes to remain occupied and roads to remain open.</p> <p>Infrastructure improvements to the stormwater systems in key areas to allow for improved drainage from prone areas. Additionally having vacuum equipment and training of staff to more efficiently and proactively clean out stormwater and catch basins throughout the year and prior to storm seasons.</p> <p>Having appropriately sized equipment to cleanup multiple locations of debris such as large chippers to remove large sized branches and loaders to cleanup more areas simultaneously. When the single piece of equipment fails during a storm event, we do not have the resources or equipment .</p>
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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
<p>Fire Department does not have a reliable and adequately sized emergency power generator. This section of town has been without power for more than 7 days</p>	<p>We have researched and have proposals for 40kW generator with 400amp auto transfer switch, initial propane fueled with new tanks installed until natural gas is extended to Fire House building. \$26,000</p>
<p>Municipal Building does not have a generator and this area has been without power for over 7 days</p>	<p>We have researched and have proposals for 65kW generator with sized auto transfer switch. Natural gas was extended to the municipal building in October 2019 but the size of loads and location requires larger generator and more complicated installation resulting in higher costs. \$35,000 average proposal.</p>





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate, floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution
<ul style="list-style-type: none"> • Old Culvers Dam 	

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
<p>Loss of Power which regularly impacts the Municipal Town Hall and the Fire department buildings during severe weather. Budgets and unavailability of natural gas have been obstacles</p> <p>Flooding and lack of suitably sized equipment for more effective water removal from public areas, businesses, and resident homes</p> <p>Traffic diversion caused by flooding and debris results in increased traffic on local roads, closed businesses, and displaced residents from homes</p>	<p>Installation of suitable sized gas fueled emergency generators at each of the buildings. The Fire Dept is the center for in town emergency response and shelter / warming center along with the location for majority of emergency response equipment. Therefore having reliable emergency power is critical to effective preparedness</p> <p>Procurement of additional smaller generators and water transfer pumps which can be located strategically to remove flood waters and allow for homes to remain occupied and roads to remain open.</p> <p>Infrastructure improvements to the stormwater systems in key areas to allow for improved drainage from prone areas. Additionally having vacuum equipment and training of staff to more efficiently and proactively clean out stormwater and catch basins throughout the year and prior to storm seasons.</p> <p>Having appropriately sized equipment to cleanup multiple locations of debris such as large chippers to</p>





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



<p>Timely cleanup and removal of debris following a storm over a period of several days can overwhelm internal DPW resources , both man power and equipment.</p>	<p>remove large sized branches and loaders to cleanup more areas simultaneously. When the single piece of equipment fails during a storm event, we do not have the resources or equipment .</p>
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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
<ul style="list-style-type: none"> The Township has one repetitive loss property which is the municipal park. There are improvements which can be implemented to the Paulinskill brook to prevent the magnitude of water backing up at the Rt 15 bridge and backflowing into the park and recreation area. 	<p>The slope and draining in this area needs significant improvement but this is significantly impacted by the blockage at the Rt 15 bridge which results in backflow of rising water into the park. This also results in blocking the major state highway and shutting down travel for days, resulting in traffic diversion onto local roads. This shuts down access to businesses located in the center of town</p>

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
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SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
 Brian Kempf (Tetra Tech)
 Phone: (212) 615-3720 E-mail: brian.kempf@tetrattech.com

Municipality: Montague Township
Name and Title of Individual
Completing Worksheet: Jesse Brace-Revak DEMC

Feedback Received on Hazard Rankings

During review of your municipality’s hazard rankings, you have noted the following rankings for the hazards of concern. *REMEMBER, for every high hazard of concern, you will need to develop at least one mitigation action.*

Dam Failure	Disease Outbreak	Drought	Earthquake	Flood	Geologic
Medium	Medium	Medium	Low	Medium	Low

Hazardous Materials	Hurricane and Tropical Storm	Invasive Species	Nor’Easter	Severe Weather	Severe Winter Weather	Wildfire
Medium	High	Low	High	High	High	Medium

Feedback Received on Adaptive Capacity

During your review of your municipality’s adaptive capacity, you have noted the following capabilities:

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Earthquake	Moderate
Flood	Moderate
Geologic	Moderate
Hazardous Materials	Moderate
Hurricane and Tropical Storm	Moderate
Invasive Species	Moderate
Nor’Easter	Moderate
Severe Weather	Moderate
Severe Winter Weather	Strong
Wildfire	Moderate





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution

What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	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
New Fire House/Community Center/Shelter	Funding to install Backup Generator \$
Elementary School	Funding to install Backup Generator \$

Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate, floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Clove Lake Dam, Hainesville WMA Dam, Biccum Dam, and No Name #62 Dam are located in the 100-year and 500-year flood hazard areas.	
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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
There are two repetitive loss properties in Montague Township.	

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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
 Chris Huch (Tetra Tech)
 Phone: (973) 630-8357 E-mail: chris.huch@tetrattech.com

Municipality: Town of Newton
Name and Title of Individual _____
Completing Worksheet: Dan Finkle

Draft Hazard Ranking

The following table represents the calculated rankings for the hazards of concern for the County and 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.

Hazard	Countywide		Municipality			
	2016 Ranking	2021 Draft Based on the Risk Assessment	2016 Ranking	2021		
				Draft Based on Risk Assessment Results	Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking	What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2016?
Dam Failure	Medium	Medium	High	Medium	Y	
Disease Outbreak	N/A	Medium	N/A	Medium	Y	
Drought	Medium	Medium	Medium	Medium	Y	
Earthquake	Medium	Low	Medium	Low	Y	
Flood	Medium	Medium	Medium	Medium	Y	
Geological	High	Medium	Medium	Low	Y	
Hazardous Materials	High	High	High	Medium	Y	
Hurricane/Tropical Storm	High	High	High	High	Y	
Invasive Species and Infestation	N/A	High	N/A	Medium	Y	
Nor'Easter	High	High	High	High	Y	
Severe Weather	High	High	High	High	Y	
Severe Winter Weather	High	High	High	High	Y	
Wildfire	Medium	Medium	Medium	Low	Y	

*Note: *Adaptive capacity was assumed Moderate for all hazards, with the exception of Strong for severe winter weather, to calculate the draft hazard ranking.*





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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.

Please fill out the following table to note your municipality’s adaptive capacity for each hazard.

Hazard	Assumed for the Hazard Ranking	Jurisdiction Input to include in your annex
Dam Failure	Moderate	Agree
Disease Outbreak	Moderate	Agree
Drought	Moderate	Agree
Earthquake	Moderate	Agree
Flood	Moderate	Agree
Geological Hazards	Moderate	Agree
Hazardous Materials	Moderate	Agree
Hurricane and Tropical Storm	Moderate	Agree
Infestation and Invasive Species	Moderate	Agree
Nor’Easter	Moderate	Agree
Severe Weather	Moderate	Agree
Severe Winter Weather	Strong	Agree
Wildfire	Moderate	Agree

If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution
Disease Outbreak	Staff training, public outreach, strengthened plans, equipment for protection and response





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	Solution
Severe weather	Strengthen sheltering capabilities, strengthen ordinances, Support programs such as "Tree Watch" that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc.

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
Newton First Aid Squad EMS Station	Install automatic standby generator
3 sewage pumping stations	Install automatic standby generators

Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate, floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution
<ul style="list-style-type: none"> • Houghton Dam • Don Bosco Dam 	Improvements/dam hardening recently completed, however dam failure inundation mapping could be completed and Emergency Operations Plans could be enhanced to include a dam failure component



SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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
Areas surrounding new Thorlabs camps of buildings on Sparta Avenue	Improve capacity of stormwater culverts

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.)

Note: The Town does not have any repetitive loss properties. Are there any floodprone neighborhoods that require flood mitigation?

Problem	Solution
East Clinton Street neighborhood	Elevation or other stormwater diversion measures

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
State Highway 206 (aka Woodside Avenue) south of Paterson Avenue to town line	Elevate roadway or improve drainage





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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
Severe Winter Weather	Availability of “Code Blue” warming centers for homeless or those with inadequate shelters during extreme cold
Disease Outbreak	Improve PPE storage capabilities

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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
 Brian Kempf (Tetra Tech)
 Phone: (212) 615-3720 E-mail: brian.kempf@tetrattech.com

Municipality: Stillwater Township
Name and Title of Individual
Completing Worksheet: Lisa Chamings Mayor and OEM Coordinator

Feedback Received on Hazard Rankings

During review of your municipality’s hazard rankings, you have noted the following rankings for the hazards of concern. *REMEMBER, for every high hazard of concern, you will need to develop at least one mitigation action.*

Dam Failure	Disease Outbreak	Drought	Earthquake	Flood	Geologic
Medium	Medium	Medium	Low	Medium	Low

Hazardous Materials	Hurricane and Tropical Storm	Invasive Species	Nor’Easter	Severe Weather	Severe Winter Weather	Wildfire
Medium	High	Medium	High	High	High	Low

Feedback Received on Adaptive Capacity

During your review of your municipality’s adaptive capacity, you have noted the following capabilities:

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Earthquake	Strong
Flood	Moderate
Geologic	Moderate
Hazardous Materials	Moderate
Hurricane and Tropical Storm	Moderate
Invasive Species	Moderate
Nor’Easter	Moderate
Severe Weather	Moderate
Severe Winter Weather	Strong
Wildfire	Moderate





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution
<p>Drought and Wildfire go hand in hand in our area. As droughts occur or extended dry periods never classified as droughts the undergrowth gets overly dry..</p> <p>Also goes along with invasive species. Invasive species have caused forested areas to die out and leave large undergrowth areas that are getting thicker and harder to manage</p>	<p>Several possible solutions. Controlled burns would help. Burns would help. Also, our local fire department constantly assists depleted Forest Fire Departments that oversee large federal and state lands in this area as well. Stand pipes or dry hydrants in various locations would be an essential benefit. Strategically located to areas that would assist in protection of homes near these high undergrowth areas would be a great mitigation strategy.</p>

What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	Solution
<p>Falling trees and Power outages.</p>	<p>We have several specific areas that continually have trees coming down across roadways which consequently take down power lines. Having the financial resources to high properly equipped and insured Tree Removal companies to remove trees within our Township Road ROW's would be extremely beneficial to mitigating against power outages both long and short term in length. This would include having a forester assess trees, Deed searches perhaps completed to verify township right of way in targeted areas, if needed a survey completed, and then the tree removal completed by qualified personnel. Our DPW can do small jobs but not jobs of large trees near power and other utility lines. JCPL only maintains certain distances from their lines. Other utilities really do no vegetative management. Until a storm comes, then they might come out.</p>

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
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SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Our Critical facilities are now equipped with generators although some are getting older. We are pretty good now in this area.	Upgrades would be the only possible plan.
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Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate, floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution
Wintermute’s Mill Dam, Paulinskill Lake Dam, and County Line Dam are located in the 100-year and 500-year flood hazard areas.	

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.)

Note: The Town does not have any repetitive loss properties. Are there any floodprone neighborhoods that require flood mitigation?

Problem	Solution
We have one small location that has two houses that due tend to have flooding issues in basement areas during extreme rainfall over extended periods of time. This area is off of West End Drive.	Many solutions have been examined. The only possible solution is an old easement that may have become overgrown and could use a clean out that is very aggressive. Trees have grown into the easement. There are questions concerning this.





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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
<p>Duck Pond Road is an area that floods even during times of moderate to heavy rainfall over extended periods of time</p> <p>In our 2011 HMP the stream bank along Kohlbocker Road was cited as eroding. This problem still exists and at this time is beginning to cause the collapse of the roadway along the bank of the stream. The elevation is relatively high as well. This road is an ingress and egress to a large lake community within Stillwater AND Hampton Township. For some reason this was not in our 2016 plan.</p>	<p>Elevating this portion of the road would benefit the residents and emergency services as they often lose ingress or egress through this roadway during moderate to heavy extended periods of rain.</p> <p>In the past it was listed that the engineer would need to design a means of correcting and fixing this issue. This is an extensive process that would need plan design, NJDEP permits.</p>

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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



<p>Harmful Algal Bloom on Swartswood Lake</p>	<p>An extensive plan is already in place by the Swartswood Lake Association. Through support by resolution of the Township Committee the Swartswood Lake Association has secured grants to assist in water quality that will help with mitigation of the blooms.</p>
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SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
 Chris Huch (Tetra Tech)
 Phone: (973) 630-8357 E-mail: chris.huch@tetrattech.com

Municipality: Borough of Sussex
Name and Title of Individual
Completing Worksheet: Floyd Southard – OEM Coordinator

Feedback Received on Hazard Rankings

During review of your municipality’s hazard rankings, you have noted the following rankings for the hazards of concern. *REMEMBER, for every high hazard of concern, you will need to develop at least one mitigation action.*

Dam Failure	Disease Outbreak	Drought	Earthquake	Flood	Geologic
Medium	Medium	Medium	Low	Medium	Low

Hazardous Materials	Hurricane and Tropical Storm	Invasive Species	Nor’Easter	Severe Weather	Severe Winter Weather	Wildfire
Medium	High	Medium	High	High	High	Low

Feedback Received on Adaptive Capacity

During your review of your municipality’s adaptive capacity, you have noted the following capabilities:

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Earthquake	Moderate
Flood	Moderate
Geologic	Moderate
Hazardous Materials	Moderate
Hurricane and Tropical Storm	Moderate
Invasive Species	Moderate
Nor’Easter	Moderate
Severe Weather	Moderate
Severe Winter Weather	Moderate
Wildfire	Moderate





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution
The Borough has aging equipment and limited manpower for a long duration winter storm	Funding for aging equipment Explore shared services with other municipalities/county/state DPWs Agreements with private contractors for long duration storms

What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	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
Boro hall has no backup generator-was not feasible to install until the Borough bought the lot next to the Boro hall Firehouse is used as an EOC which leads to increased usage during a power outage Cannot adequately run government during a power outage	Install a backup generator for the Boro hall

Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate,





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution
<ul style="list-style-type: none"> • Clove River Dam 	Stream bank stabilization surrounding confluence of Clove Brook and Papakating Creek
<ul style="list-style-type: none"> • DPW Garage/Sewer Department is in Flood Plain of Papakating Creek 	Install and raise new (bigger) sewer pumps along with an applicable sized backup generator

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
<ul style="list-style-type: none"> • The Borough has one repetitive loss property <p>JCP&L substation is located next to Boro DPW and sewer pumps</p>	Stream bank stabilization surrounding confluence of Clove Brook and Papakating Creek

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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



County route and local road run over the Clove Brook which if flooded would take out 2 bridges that separate the Firehouse from the rest of the town	Stream bank stabilization surrounding confluence of Clove Brook and Papakating Creek
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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



SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
 Chris Huch (Tetra Tech)
 Phone: (973) 630-8357 E-mail: chris.huch@tetrattech.com

Municipality: Sussex County
Name and Title of Individual
Completing Worksheet: Michael L Restel

Feedback Received on Hazard Rankings

During review of your municipality’s hazard rankings, you have noted the following rankings for the hazards of concern. *REMEMBER, for every high hazard of concern, you will need to develop at least one mitigation action.*

Dam Failure	Disease Outbreak	Drought	Earthquake	Flood	Geologic
Medium	Medium	Medium	Low	Medium	Medium

Hazardous Materials	Hurricane and Tropical Storm	Invasive Species	Nor’Easter	Severe Weather	Severe Winter Weather	Wildfire
High	High	High	High	High	High	Medium

Feedback Received on Adaptive Capacity

During your review of the County’s adaptive capacity, we have noted the following capabilities:

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Earthquake	Moderate
Flood	Moderate
Geologic	Moderate
Hazardous Materials	Moderate
Hurricane and Tropical Storm	Moderate
Invasive Species	Moderate
Nor’Easter	Moderate
Severe Weather	Moderate
Severe Winter Weather	Strong
Wildfire	Moderate





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution

What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	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
The Backup generator is Roughly 20 Years Old and showing signs of wear and tear	Purchase a New Generator

Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate, floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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
The County has 16 Repetitive Loss properties in 10 municipalities.	The County will support municipalities as they work to mitigate repetitive loss properties.

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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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
<ul style="list-style-type: none">• DPW lacks a 70-foot tree truck and stump grinder for tree trimming operations	



SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
 Brian Kempf (Tetra Tech)
 Phone: (212) 615-3720 E-mail: brian.kempf@tetrattech.com

Municipality: Vernon Township
Name and Title of Individual
Completing Worksheet: Ken Clark

Feedback Received on Hazard Rankings

During review of your municipality’s hazard rankings, you have noted the following rankings for the hazards of concern. *REMEMBER, for every high hazard of concern, you will need to develop at least one mitigation action.*

Dam Failure	Disease Outbreak	Drought	Earthquake	Flood	Geologic
Medium	Medium	Medium	Low	Medium	Medium

Hazardous Materials	Hurricane and Tropical Storm	Invasive Species	Nor’Easter	Severe Weather	Severe Winter Weather	Wildfire
Medium	High	Medium	High	High	High	Medium

Feedback Received on Adaptive Capacity

During your review of your municipality’s adaptive capacity, you have noted the following capabilities:

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Earthquake	Moderate
Flood	Moderate
Geologic	Moderate
Hazardous Materials	Moderate
Hurricane and Tropical Storm	Moderate
Invasive Species	Moderate
Nor’Easter	Moderate
Severe Weather	Moderate
Severe Winter Weather	Strong
Wildfire	Moderate





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution
Damn Failure	Yearly Damn review for issues
Hurricane Tropical Storm/Severe Weather	Cut back on trees and limbs away from wires and roads
Wildfire	Cut back of brush away from homes

What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	Solution
Power loss and road closure due to falling trees	Comprehensive cut back along roadways

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
2 Firehouses that can act as shelters without generators	Acquire generators

Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate,





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution
The Dorothy Henry Library Branch, Canistear Reservoir #2 Dam, Lake Wanda Dam, Kohout Lake Dam, and Hickory Park Dam are located in the 100-year and 500-year flood hazard areas.	Damn review yearly

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
None	

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
There are two repetitive loss properties in Vernon Township.	

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
Vernon Crossing	Continue to modify area to accept rainfall

Outreach Projects





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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
Communication to seniors and homebound	Improve access to those people

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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



Please work with your municipal planning team and complete this worksheet. Please send electronic Word version by November 13, 2020 to:
 Brian Kempf (Tetra Tech)
 Phone: (212) 615-3720 E-mail: brian.kempf@tetrattech.com

Municipality: Wantage Township
Name and Title of Individual
Completing Worksheet: Joe Konopinski

Feedback Received on Hazard Rankings

During review of your municipality’s hazard rankings, you have noted the following rankings for the hazards of concern. *REMEMBER, for every high hazard of concern, you will need to develop at least one mitigation action.*

Dam Failure	Disease Outbreak	Drought	Earthquake	Flood	Geologic
Medium	Medium	Medium	Low	Medium	Medium

Hazardous Materials	Hurricane and Tropical Storm	Invasive Species	Nor’Easter	Severe Weather	Severe Winter Weather	Wildfire
Medium	High	Medium	High	High	High	Medium

Feedback Received on Adaptive Capacity

During your review of your municipality’s adaptive capacity, you have noted the following capabilities:

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Earthquake	Moderate
Flood	Moderate
Geologic	Moderate
Hazardous Materials	Moderate
Hurricane and Tropical Storm	Moderate
Invasive Species	Moderate
Nor’Easter	Moderate
Severe Weather	Moderate
Severe Winter Weather	Strong
Wildfire	Moderate





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



If you have noted moderate or weak capabilities to address specific hazards, are there actions that you would like to include in your mitigation strategy to strengthen your capabilities? (ex: strengthened plans/ordinances, training for staff, equipment for response, etc.)

Problem	Solution

What is your biggest hazard concern? (ex: stormwater flooding, falling trees, power loss, harmful algal blooms, etc.). Do you have any projects in mind to address that hazard?

Problem	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
Generator at Township building is old and in need of replacement	Purchase a new generator

Critical Facilities - Flood Protection

Please list critical facilities that are located in the special flood hazard area (100-year floodplain), that could benefit from protection to the 0.2% (500-year) flood and what could be done to protect them (relocate, elevate, floodproof, etc.). If already protected, please note the protections. If you are unsure of their protections, assume they need additional protections.

Problem	Solution





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



The Herzenberg Dam is located in the 100-year and 500-year flood hazard areas.	
--	--

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.)

Note: The Town does not have any repetitive loss properties. Are there any floodprone neighborhoods that require flood mitigation?

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





SUSSEX COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Development



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





APPENDIX G. PLAN MAINTENANCE TOOLS

This appendix includes tools and worksheets to facilitate plan maintenance and review by the Sussex 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.

The FEMA 386-4 guidance worksheets are also available to assist with progress reporting. These worksheets are provided below for ease of access to the HMP Coordinator and Planning Partnership to maintain the 2021 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?

<i>When gearing up for the plan evaluation, the planning team should reassess its composition and ask the following questions:</i>	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.

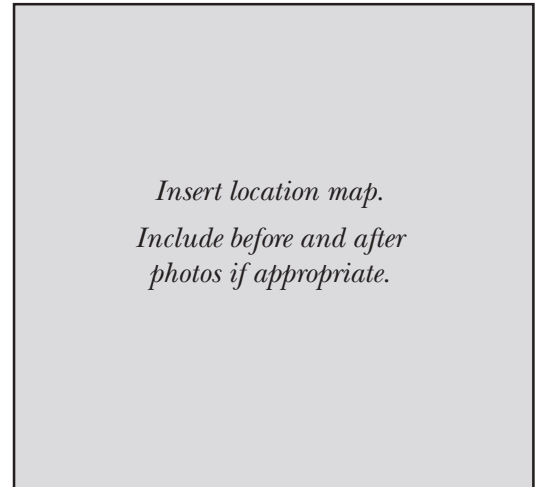
Project Name and Number: _____

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? _____

	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: _____

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 #1

Progress Report

step 2

Page 1 of 3

Progress Report Period: October 1, 2003 to December 31, 2003
(date) (date)

Project Title: Raging River Views Park Flood Acquisition Project Project ID#: HVMP-2003-01

Responsible Agency: Hazardville Department of Planning

Address: 1909 Burnham Way

City/County: Hazardville, Emergency

Contact Person: Eustoe Eudlid Title: Grants Administrator

Phone #(s): (555) 555-8478 email address: eeudlid@town.hazardville.oh

List Supporting Agencies and Contacts:

Hazardville Department of Housing: Noah Hudson (555) 555-8465

Hazardville Habitat for Humanity: Carter Goodman (555) 555-9432

Total Project Cost: \$360,000

Anticipated Cost Overrun/Underrun: \$N/A

Date of Project Approval: July 21, 2003 Start date of the project: November 15, 2003

Anticipated completion date: Summer 2005

Description of the Project (include a description of each phase, if applicable, and the time frame for completing each phase):

Acquire and demolish 14 structures located at the Raging River Views Park. Work with Habitat for Humanity and the Department of Housing to construct new housing or rehabilitate existing housing for displaced low-income residents. The Department of Housing will also provide funds for temporary housing to displaced residents.

Milestones	Complete	Projected Date of Completion
Conduct surveys of ground and first-floor elevations	✓	
Obtain Notices of Intent by owners	✓	
Conduct structure appraisals	✓	
Send letters of offer to homeowners		1/31/04
Perform title work		3/30/04
Acquire structures		6/30/04
Begin construction of new housing or reconstruction of existing housing for relocated residents		6/30/04
Send payment for relocation to centers		9/30/04
Finalize contract for demolition		1/12/05
Demolish structures		4/26/05
Landscape open parcels		6/30/05

Plan Goal(s)/Objective(s) Addressed:

Goal: Minimize losses to existing and future structures within hazard areas.

Objective: Reduce potential damages to the manufactured home park in the floodplain.

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.

Losses Avoided. After a major flood (100-year), the Department of Economic Development will assist the Planning Department in calculating the losses avoided.

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 Cost Status
<input checked="" type="checkbox"/> Project on schedule	<input checked="" type="checkbox"/> Cost unchanged
<input type="checkbox"/> Project completed	<input type="checkbox"/> Cost overrun*
<input type="checkbox"/> Project delayed*	*explain: _____
*explain: _____	_____
<input type="checkbox"/> Project canceled	<input type="checkbox"/> Cost underrun*
	*explain: _____

Summary of progress on project for this report:

A. What was accomplished during this reporting period?

The Department of Planning contacted the owners of the properties vulnerable to floods to determine their willingness to sell their properties. Of the 14 property owners contacted, 10 agreed to have their homes acquired. An appraiser contracted by the Department of Planning estimated the value of the 10 properties.

B. What obstacles, problems, or delays did you encounter, if any?

The owners of four properties refused to sell. There has been some limited neighborhood opposition to various suggestions for the community open space created by the acquisitions.

C. How was each problem resolved?

The Department of Planning has proposed to the residents a design charrette to develop alternatives for the open space that would be created, with the understanding that no permanent structures can be constructed on the open parcels after acquisition and demolition has been completed. Recreational activities will be limited to passive uses such as trails and bike paths.

Worksheet #2 Evaluate Your Planning Team step **3**

<i>When gearing up for the plan evaluation, the planning team should reassess its composition and ask the following questions:</i>	YES	NO
Have there been local staffing changes that would warrant inviting different members to the planning team?		✓
Comments/Proposed Action: NA		
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: Hazardville Habitat for Humanity has been invaluable to assisting the relocation of former Ragging River Views Park residents. The organization should be invited to participate in THORR.		
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: It is essential that the Department of Public Works be represented at each meeting because so many mitigation actions involve them. However, representatives from the department have been unable to attend meetings consistently since the development of the plan. THORR will work with the department's director to find consistent, active representation.		
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: Again, the Department of Public Works has been unable to provide timely progress reports of its mitigation actions. Administrative duties and paperwork have fallen through the cracks since the department has been assigned numerous new duties to Hazardville's mitigation efforts. Perhaps the department, in partnership with THORR, should approach the Town Council for funding for more department staff.		
Are there ways to gain more diverse and widespread cooperation?	✓	
Comments/Proposed Action: THORR members believe that better publicity about mitigation actions will garner more interest from the public, affected/interested organizations, and state agencies.		
Are there different or additional resources (financial, technical, and human) that are now available for mitigation planning?	✓	
Comments/Proposed Action: THORR has learned about new PDM funding. The state has asked that local jurisdictions submit applications for brick and mortar projects and risk assessments studies.		

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:

Raging River Views Park Flood Acquisition Project (HYMP-2003-01)

Project Budget:

\$360,000

Project Description:

Acquisition and demolition of 14 flood-prone structures

Associated Goal and Objective(s):

Goal: Minimize losses to existing and future structures within hazard areas

Objective: Reduce potential damages to the manufactured home park in the floodplain

Indicator of Success (e.g., losses avoided):

Losses avoided by acquisition and demolition of flood-prone structures



Town of Hazardville Composite Loss Map developed previously during risk assessment (see FEMA 316-2).

Was the action implemented? YES NO

IF NO

Why not?

Was there political support for the action?

YES NO

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?

IF YES

What were the results of the implemented action?

Of the 14 proposed properties, 10 were acquired. The benefit-cost ratio is 2.19, based on project benefits of \$789,000 and costs of \$360,274. Benefits are based on the net present value of the avoided damages over the project life. Furthermore, about 40 people are no longer in the path of a potential flood, making emergency rescue operations in that area less likely and evacuation easier.

	YES	NO
Were the outcomes as expected? If No, please explain:		<input checked="" type="checkbox"/>
The project originally set out to acquire 14 properties. Four of the 14 owners did not want to participate in the buyout program.		
Did the results achieve the goal and objective(s)? Explain how:	<input checked="" type="checkbox"/>	
Despite four properties still in harm's way, the objective has been largely met. See additional comments.		
Was the action cost-effective? Explain how or how not:	<input checked="" type="checkbox"/>	
The FEMA Limited Data module was used to perform the benefit-cost analysis. Data for the analysis was collected from historical flood data and used as benchmarks in the before mitigation section of the analysis. The damages after mitigation section was left blank, due to the properties being permanently acquired, and the economic risk removed completely. The analysis resulted in a benefit-cost ratio of 2.19, with benefits totaling \$789,000 for 10 properties.		
What were the losses avoided after having completed the project?		
Total avoided losses are \$789,000 over the lifetime of the project (estimated at 100 years).		
If it was a structural project, how did it change the hazard profile?		
N/A		
Additional comments or other outcomes:		
The Planning Department has agreed to work with the remaining four homeowners in evaluating other flood-proofing options.		

Date: October 12, 2005

Prepared by: Hazardville Department of Economic Development
Hazardville Department of Planning

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?	✓		Recently completed maps and studies showing vulnerability of the new coastal development to erosion and tidal surge are 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?	✓		The Planning Department is preparing a coastal development plan to ensure that any future development is set back far enough to be outside the erosion zones and the coastal high hazard areas. Corroset and future road configurations will also be studied to ensure adequate evacuation times before hurricane events.
	Are there any new special high-risk populations?	✓		Coastal residents and business owners.
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.





APPENDIX H. LINKAGE PROCEDURES

This appendix contains the linkage procedures for the Sussex County HMP.

H.1 ADMINISTRATIVE PROCESS FOR “LINKAGE” TO THE SUSSEX COUNTY HAZARD MITIGATION PLAN

Even though that initial development of the Sussex County HMP included all municipalities in the County, 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 Sussex 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 Disaster Mitigation Act (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 Sussex County HMP Steering 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.

H.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 DMA.
- 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 and lifelines were included in the critical facility, lifeline 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 Hazard Mitigation Planning Coordinator - Sussex County Division of Emergency Management - for review within six months of beginning the linkage process:

1. The Sussex County HMP Steering Committee has established an annual window for which linkage to the plan can occur; April through September each year to ensure linking is completed before the annual FEMA HMA grant season begins. Linking jurisdictions are instructed to complete the following procedures during this time frame.



2. The current non-participating jurisdiction contacts the Sussex County Hazard Mitigation Planning Coordinator for the plan and requests a "Linkage Package" by April of each year, to be completed by September as noted above. The Sussex County Hazard Mitigation Planning Coordinator is:

Robert Haffner, Director
Sussex County Division of Emergency Management
39 High Street, Newton, NJ 07860
973-579-0380

3. The Sussex County HMP Coordinator will provide a linkage packages that includes:
 - Copy of Volume 1 and 2 of the plan (thumb drive).
 - Planning Partner's Expectations Sheet.
 - A Sample "Letter of Intent" to Link to the HMP.
 - A Jurisdictional Template and Instructions.
 - Catalog of Hazard Mitigation Alternatives or the Mitigation Catalog.
 - 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 Sussex 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 Sussex County HMP Coordinator. Technical assistance can be provided upon request by completing the request for technical assistance (TA) form provided in the linkage package. This TA may be provided by the Sussex County HMP Coordinator or any other resource within the Planning Partnership such as a member of the HMP Steering Committee or a currently participating jurisdiction. The Sussex County HMP 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 HMP 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 Sussex County HMP Coordinator for a pre-adoption review to ensure conformance with the plan format.
7. The Sussex County HMP 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 Sussex County Hazard Mitigation Plan; and
 - Designated point of contact.

The Sussex County HMP Coordinator may utilize members of the HMP Planning Partnership or other resources to complete this review. All proposed linked annexes will be submitted to the HMP Planning Committee for their review and comment prior to submittal to the New Jersey Office of Emergency Management – Mitigation Unit (NJOEM).

8. Plans approved and accepted by the HMP Planning Partnership will then be forwarded to NJOEM 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. NJOEM 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 NJOEM and approved planning authority.
11. New jurisdiction corrects plan's shortfalls (if necessary) and resubmits to NJOEM 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 NJOEM.
13. Region II Director notifies new jurisdiction governing authority of plan approval.

The new jurisdiction plan is then included with Sussex County HMP and the linking jurisdiction is committed to participate in the ongoing plan implementation and maintenance identified in Volume 1 of the HMP.