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From: Morganti, Chelsea

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Cc: <u>Buchanan, Erin M; Kourtzidis, Demitra; Duffy, Mark W</u>

**Subject:** Northampton/Lehigh Hazard Mitigation Planning Team Kickoff (1 of 2)

Attachments: <u>image001.png</u>

Greetings Lehigh Valley Hazard Mitigation Planning Team Members!

You are invited to represent your entity during the Hazard Mitigation Plan update. This plan is a pre-requisite for natural hazard mitigation grant funding and requires your participation and engagement this summer. Feel free to share this invitation with any additional points of contact who represent your jurisdiction (floodplain managers, planning and zoning officials, emergency managers, elected leadership, etc.) or those who may be able to assist in the planning effort, particularly if you are unable to attend and they can advocate on your behalf. This is the first of two offerings. You only need to participate in one (whichever fits your schedule best).

The kickoff meeting will include:

- \* Overview
- \* What is mitigation and mitigation planning?
- \* Available funding
- \* The Planning Process
- \* Your role
- \* Timeline
- \* Outreach and stakeholders
- \* 2018 Mitigation Plan Review
- \* Structure and modifications
- \* What's changed and what challenges have you encountered?
- \* Exercise 1 Hazard Identification
- \* Exercise 2 Capabilities Worksheet
- \* Questions and Next Steps

Please also lookout for invitations to the in-person workshops being held on June 28th in Northampton County and June 29th in Lehigh County. I can be reached at the email and phone number below if you have any questions or concerns. Thank you for your participation!

Chelsea Morganti

Deputy Director, Hazard Mitigation

+1 505 582 9514 (mobile)

+1 985 781 0804 (24/7 emergency)

wittobriens.com <a href="https://www.wittobriens.com/">https://ambipar.com/</a>>

Witt O'Brien's is now part of the Ambipar Response group (NYSE: AMBI) <a href="https://www.wittobriens.com/witt-obriens-joins-ambipar-response-group-expanding-global-reach-and-enhancing-resilience-services">https://www.wittobriens.com/witt-obriens-joins-ambipar-response-group-expanding-global-reach-and-enhancing-resilience-services</a>

Microsoft Teams meeting

Join on your computer, mobile app or room device

 $\label{likelihood} Click here to join the meeting < https://teams.microsoft.com/l/meetup-join/19%3ameeting_OWY2ZTQ2NjUtMTcyZS00YTI0LTk0NjItNZcxNDFmOGQ3MWZk%40thread.v2/0? \\ context= %7b%22Tid%22%3a%22ce555da0-cea7-4a05-aaed-9f7e90e5b3fb%22%2c%22Oid%22%3a%221094681a-4cfe-4b8b-9e53-8f5aa0794306%22%7d>$ 

Meeting ID: 274 734 492 521

Passcode: r6MLbB

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 From: Morganti, Chelsea

To:

Todd K. Weaver, ENP; Thomas Guth; tanyahook; John Semonich; tracym@alburtis.org; snemeth@alburtis.org; emergencymanagement@catasauqua.org; manager@catasauqua.org; Lee.Laubach@allentownpa.gov; Erain.Agosto@allentownpa.gov; tpaashaus@coopersburgborough.org; astruss@coopersburpd.org; tbenson@coplayborough.org; publicworks@coplayborough.org; kmiller@emmauspa.gov; EMSchief@emmauspa.gov; abranco@fhboro.org; pw@fhboro.org; mwehr@hanleco.org; spadacciachris@gmail.com; jmeters@heidelberglehigh.org; vtanguch@lowermac.com; njones@lowermac.como; info@lowermilford.org; tammyw@ptd.net; manager@macungie.pa.us; rdeemer@northwhitehall.org; cgarges@northwhitehall.org; wdavis@salisburytownshippa.org; Tcunningham@salisburytownship.org; general313@lycos.com; janems69@aol.com; petruccit@southwhitehall.com; dorneyg@southwhitehall.com; Pchrist@uppermac.org; ddellecker@uppermac.org; kwalbert@uppermilford.net; ecarter@uppermilford.net; pleonard@uppersaucon.org; DC25@ustpd.org; washtwpemc@ptd.net; fbartholomew@weisenbergfire.com; brian@weisenbergtownship.org; cgrim@whitehalltownship.com; jrackus@whitehalltownship.com; garykrill@gmail.com; manager@allentownship.org; sreider@bangorborough.org; jkresge@bangorborough.org; manager@boroughofbath.org; emc@boroughofbath.org; rnovatnack@bethlehem-pa.gov; wachey@bethlehempa.gov; akelly@bethlehemtownship.org; dbruce@bethlehemtownship.org; belinda@bushkilltownship.com; tbarnowski@northampton.edu; tbarnowski@bushkilltownship.com; cwfehnelcpa@epix.net; Ivydot1@verizon.net; jmilot@hanovereng.com; manager@eatwp.org; Firechief3151@yahoo.com; chiefmulligan@eastbangorborough.org; snowroski@easton-pa.gov; cmanges@easton-pa.gov; mroberts@forkstownship.org; dasure@forkstownship.org; chief@boroughoffreemansburg.org; emc@boroughoffreemansburg.org; glendonboro@rcn.com; mlimpar@hanovertwp-nc.org; jfinnigan@hanovertwpnc.org; c.hartranft@hellertownborough.org; bsmith@barryisett.com; arehrig@lehightownship.com; sfogel@lehightownship.com; jsmethers@lowermtbethel.org; jcoyle@carrollengineering.com; <u>lseese@lowernazareth.com</u>; <u>lstauffer@lowernazareth.com</u>; <u>manager@lowersaucontownship.org</u>; emermgt@lowersaucontownship.org; emc@mooretownship.org; khorvath@kceinc.com; mmorella@vigilancehose.com; pakofnaz@gmail.com; scheirerg@gmail.com; northcatasauquaema@yahoo.com; leroyb@enter.net; northamptonpd@rcn.com; sqallagher@palmertwp.com; kbaird@palmertwp.com;

manager@penargylborough.com; parks@penargylborough.com; manager@plainfieldtownship.org;

mayorhfischer@gmail.com; stephsteele@yahoo.com; rosbor@epix.net; bcollura@epix.net; stockworks@rcn.com; ddereamus@suburbanems.org; Borough.office@tatamypa.com; roadcrewchief@umbt.org; billwill@epix.net; manager@uppernazarethtownship.org; rinknc38@rcn.com; alacko@walnutportpa.org; Wtpd3807@washingtontownship.com; coolrunnings@ptd.net; dcd409@aol.com; msabatine@williamstwp.org; mstrawn@williamstwp.org; firechief@wilsonborough.org; mwall@tandmassociates.com; louise@windgap-pa.gov

Buchanan, Erin M; Kourtzidis, Demitra; Duffy, Mark W Cc:

Subject: Northampton/Lehigh Hazard Mitigation Planning Team Kickoff (2 of 2)

**Attachments:** image001.png

Greetings Lehigh Valley Hazard Mitigation Planning Team Members!

You are invited to represent your entity during the Hazard Mitigation Plan update. This plan is a pre-requisite for natural hazard mitigation grant funding and requires your participation and engagement this summer. Feel free to share this invitation with any additional points of contact who represent your jurisdiction (floodplain managers, planning and zoning officials, emergency managers, chairmen of the board) or those who may be able to assist in the planning effort, particularly if you are unable to attend and they can advocate on your behalf. This is the second of two offerings. You only need to participate in one (whichever fits your schedule best).

The kickoff meeting will include:

- \* Overview
- \* What is mitigation and mitigation planning?
- \* Available funding
- \* The Planning Process
- \* Your role
- \* Timeline
- \* Outreach and stakeholders
- \* 2018 Mitigation Plan Review
- \* Structure and modifications
- \* What's changed and what challenges have you encountered?
- \* Exercise 1 Hazard Identification
- \* Exercise 2 Capabilities Worksheet
- \* Questions and Next Steps

Please also lookout for invitations to in-person workshops being held on June 28th in Northampton County and June 29th in Lehigh County. I can be reached at the email and phone number below if you have any questions or concerns. Thank you for your participation!

Chelsea Morganti

Deputy Director, Hazard Mitigation

+1 505 582 9514 (mobile)

+1 985 781 0804 (24/7 emergency)

wittobriens.com <a href="https://www.wittobriens.com/">https://ambipar.com/</a> | ambipar.com <a href="https://ambipar.com/">https://ambipar.com/>

Witt O'Brien's is now part of the Ambipar Response group (NYSE: AMBI) <a href="https://www.wittobriens.com/witt-obriens-joins-ambipar-response-group-">https://www.wittobriens.com/witt-obriens-joins-ambipar-response-group-</a> expanding-global-reach-and-enhancing-resilience-services>

Microsoft Teams meeting

Join on your computer, mobile app or room device

 $Click \ here \ to \ join \ the \ meeting < https://teams.microsoft.com/l/meetup-join/19%3 ameeting \_MzU5ZWE3NmMtNTQwOS00Yzg0LWFlYjMtZDIzNWE1ZmZiYmUz%40 thread.v2/0?$ context=%7b%22Tid%22%3a%22ce555da0-cea7-4a05-aaed-9f7e90e5b3fb%22%2c%22Oid%22%3a%221094681a-4cfe-4b8b-9e53-8f5aa0794306%22%7d>

Meeting ID: 236 376 168 861 Passcode: x92t5n

Download Teams <a href="https://www.microsoft.com/en-us/microsoft-teams/download-app">https://www.microsoft.com/en-us/microsoft-com/microsoft-com/microsoft-com/microsoft-com/en-us/micros teams/join-a-meeting>





# LEHIGH VALLEY HAZARD MITIGATION PLAN

Hazard Mitigation Planning Committee Kick Off Meeting

THURSDAY JUNE 15, 2023

6





### **INTRODUCTIONS**



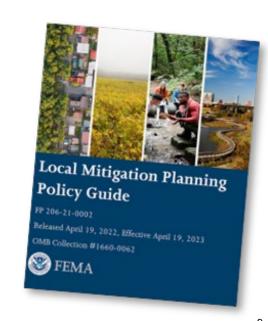
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- John Semonich, BS, NRP Community Outreach Manager
- JohnSemonich@lehighcounty.org
- 610-782-4601

## **INTRODUCTIONS**





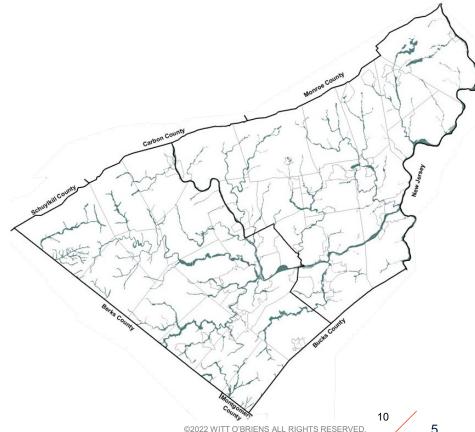


# **OVERVIEW**





removing property or infrastructure from the



#### **OVERVIEW - FEDERAL FUNDING**



#### **GRANT PROGRAMS**

- > Buyout Program Implementation/Residential Elevations
- > Residential and Commercial Floodproofing and Wind Retrofit
- Flood Control Projects
- Coastal Resilience
- Nature Based Solutions
- Infrastructure and Utility Hardening
- Wildfire Thinning



#### **OVERVIEW - YOUR ROLE**



- What hazards have impacted your community
- Where do hazards have the most destructive or negative impact on health, safety, life, and/or property?



#### THE PLANNING PROCESS





# **TIMELINE**

TASK	MAY	JUN	JUL	AUG	SEPT	ОСТ	NOV	DEC	JAN
Planning Process									
Steering Committee Meeting 1 and 2	$\Rightarrow$								
Kickoff (Meeting 1) - Virtual, Two offerings		$\Rightarrow$							
Public Engagement and Survey		+							
Hazard Identification and Risk Assessment									
Data Collection									
Workshops (Meeting 2) - In-person, 4 offerings		$\Rightarrow$							
Analysis									
Mitigation Strategy									
Workshops (Meeting 3) - TBD			$\Rightarrow$						
Capability, Vulnerability, and Strategy Updates									
Planning Team Meeting 4 - TBD				$\Rightarrow$					
Support Adoption and Prepare Final Deliverables									
Plan Draft - Planning Team Comments									
Plan Draft - Public Comment					+				
Final Draft Revisions									
FEMA and State Review									
Submit final version for State Review									
State RFI and edits									
Submit final version for FEMA Review									
FEMA RFI and edits									
APA									
Adoption									
Final FEMA Approval									

# **DATA GATHERING EXERCISE** WITT O'BRIEN'S

## **COMMUNITY ASSETS**

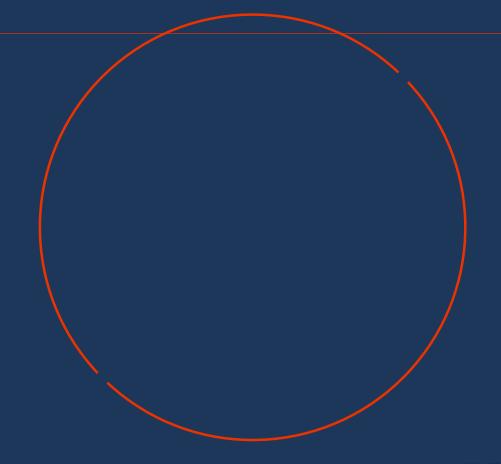












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# QUESTIONS & NEXT STEPS



# **THANK YOU!**

For more information, please reach out to

Northampton County: Thomas E. Guth, Jr. tguth@ncem-pa.org or 610-746-3194 x3228

Lehigh County: John Semonich

JohnSemonich@lehighcounty.org or 610-782-4601

Witt O'Brien's: Chelsea Morganti <a href="mailto:cmorganti@wittobriens.com">cmorganti@wittobriens.com</a> or 505-582-9514









# **Hazard Identification Exercise**

Community/Organization:	
Name and Title:	

#### **PART I: Identified Hazards**

Has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?

Identified Hazards	NC=No Change I=Increase D=Decrease	Comments (Provide input for any hazards marked I or <b>D</b> )
Natural Hazards		
Drought	NC	
Earthquake	NC	Majority
Extreme Temperatures	NC	
Flood	Some NC, some Increase	11 keep broken out.
Hailstorm	NC	
Invasive Species	I	Increase – spotted lantern fly (economic), emerald ash bore (economic), bamboo and tree of heaven, Japanese knot weed,
Landslide	NC	
Lightning	NC	
Pandemic		Refer to Data
Radon		Refer to data. Upper S-capital of the world (already reflected in the last plan)
Sinkhole	NC	Increase due to development and limestone
Wind	NC	Increase – (research)
Wildfire		No FMAGs. (research)

Identified Hazards	NC=No Change I=Increase D=Decrease	<b>Comments</b> (Provide input for any hazards marked <b>I</b> or <b>D</b> )
Winter Storm		Decrease

#### **PART II: Human-Caused Hazards**

Has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?

Technological Hazards (Human- Caused)	NC=No Change I=Increase D=Decrease	Comments (Provide input for any hazards marked I or <b>D</b> )
Building Collapse	NC	
Cyber-Terrorism*	I	Health institutions, virtual public, meetings,
Dam Failure	NC	
Drug Overdose	I	(Research) Fentanyl and opioids. meth
Environmental Hazards (Coal Mining, Unconventional or Conventional Oil and Gas Wells, Hazardous Materials Release)	I	(research) Hazmat release
Gas / Liquid Pipelines*	NC	Increase – gas leaks, failing infrastructure
Levee Failure	NC	
Mass Gathering (Civil Disturbance)	I	Amusement parks, Political rallies/protest/disturbances, pools and parks
Nuclear Incident	NC	
Terrorism	I	Domestic terrorism nationwide.
Transportation Crashes	I	Motor Vehicle Accidents. More trucks involved—increased severity along with hazmat releases. Gridlock due to detours.
Urban Fires	NC	
Utility Interruption	ı	Utility interruption- increase to telecommunications, internet, power. Grid is aging.

Technological Hazards (Human- Caused)	NC=No Change I=Increase D=Decrease	Comments (Provide input for any hazards marked I or <b>D</b> )
Other?		

<sup>\*</sup> Hazards already identified for inclusion in the 2023 update.

#### **PART III: State Identified Hazards**

Does the Planning Team concur that the following state profiled hazards can be excluded from the risk profile for the Lehigh Valley Hazard Mitigation Plan?

Identified Hazards	<b>I</b> =Include <b>X</b> =Exclude	Reasoning
Coastal Erosion	Х	No coasts in our jurisdiction.
Flash Flood	I	Due to frequency – Separate from riverine flooding
Ice Jam	I	
Hurricane	I	
Tropical Storm	I	
Nor'easter	I	
Tornado	ı	
Mass Food and Animal Feed Contamination	I	





# **Hazard Identification Exercise**

Community/Organization:	
Name and Title:	

#### **PART I: Identified Hazards**

Has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?

Identified Hazards	NC=No Change I=Increase D=Decrease	<b>Comments</b> (Provide input for any hazards marked <b>I</b> or <b>D</b> )
Natural Hazards		
Drought	NC	
Earthquake	NC	
Extreme Temperatures	I	Both high and low
Flood	NC	
Hailstorm	NC	
Invasive Species	I	spotted lantern fly (economic), emerald ash bore (economic), bamboo and tree of heaven, Japanese knot weed. Pollen impacts
Landslide	NC	
Lightning	NC	
Pandemic		Refer to data.
Radon	NC	
Sinkhole	I	
Wind	I	Increase in gusts
Wildfire	NC	Increase – brush fire
Winter Storm	NC	

**PART II: Human-Caused Hazards**Has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?

Technological Hazards (Human- Caused)	NC=No Change I=Increase D=Decrease	Comments (Provide input for any hazards marked I or <b>D</b> )
Building Collapse	NC	
Cyber-Terrorism*	I	Global increase, increase locally as well
Dam Failure	NC	
Drug Overdose	I	Toxicologists have helped to decrease overdoses of prescribed opioids within hospitals
Environmental Hazards (Coal Mining, Unconventional or Conventional Oil and Gas Wells, Hazardous Materials Release)	I	Haz mat releases on the rise
Gas / Liquid Pipelines*	NC	failing infrastructure due to age and lack of people to fix those
Levee Failure	NC	
Mass Gathering (Civil Disturbance)	I	Increase of large group gatherings, population increase causes damage potential
Nuclear Incident	NC	
Terrorism	I	Bundle cyber and domestic? Political climate
Transportation Crashes	I	Reduction in fatalities. definite increase in transportation due to more driving now vs when covid was happening. Increase and electric car challenges - More danger to first responders responding to EV accidents. More frequent and more severe. Battery and car fires. Cutting and moving materials.
Urban Fires	NC	Increase in residential, slight increase with people who can't handle fire pits
Utility Interruption	I/NC	Yes - Grid is aging.

Technological Hazards (Human- Caused)	NC=No Change I=Increase D=Decrease	Comments (Provide input for any hazards marked I or <b>D</b> )
Other?		

<sup>\*</sup> Hazards already identified for inclusion in the 2023 update.

#### **PART III: State Identified Hazards**

Does the Planning Team concur that the following state profiled hazards can be excluded from the risk profile for the Lehigh Valley Hazard Mitigation Plan?

Identified Hazards	<b>I</b> =Include <b>X</b> =Exclude	Reasoning
Coastal Erosion	X	No coasts in our jurisdiction.
Flash Flood	I	
Ice Jam	I	
Hurricane	I	
Tropical Storm	I	
Nor'easter	I	
Tornado	I	
Mass Food and Animal Feed Contamination	ı	

#### Morganti, Chelsea

**Subject:** Lehigh Valley HMP - Workshop Session 1

**Location:** Northampton County Emergency Operations Center (EOC), 100 Gracedale Avenue,

Nazareth, PA 18064

**Start:** Wed 6/28/2023 7:00 AM **End:** Wed 6/28/2023 9:00 AM

**Recurrence:** (none)

**Meeting Status:** Meeting organizer

**Organizer:** Morganti, Chelsea

**Required Attendees:** manager@penargylborough.com; Donna Asure; stephsteele@yahoo.com;

akelly@bethlehemtownship.org; garykrill@gmail.com; mlimpar@hanovertwp-nc.org; manager@lowermtbethel.org; manager@plainfieldtownship.org; wachey@bethlehempa.gov; Lori Seese; leroyb@enter.net; mrinker@ncem-pa.org; lfirestone@windgap-

pa.gov; sreider@bangorborough.org; c.hartranft@hellertownborough.org;

townshipsecretary@umbt.org

**Optional Attendees:** Kourtzidis, Demitra; Thomas Guth; Todd K. Weaver, ENP; tanyahook; John Semonich;

Kevin.krotzer@lehighcounty.org; Kevin Krotzer; akelly; Lisa Klem

Categories: Northampton

Thank you for signing up for our first in-person workshop to facilitate the update of the Lehigh Valley Hazard Mitigation Plan!

During this session we will

- Revisit the conversation around "Critical Facilities", "Community Lifelines", and "Community Assets" and validate our existing lists.
- Review the FEMA Region III Community Capability Assessment Worksheet (attached) and capability sections of your HMP annexes.
- Discuss opportunities for public and stakeholder outreach.
- Cover any additional topics or questions that may come up in discussion.

Please review the capability section of your community's annex prior to the workshop. You can reach out to Northampton (Thomas Guth <a href="mailto:tguth@ncem-pa.org">tguth@ncem-pa.org</a>), Lehigh (John Semonich <a href="mailto:JohnSemonich@lehighcounty.org">JohnSemonich@lehighcounty.org</a>), or myself if you need a copy.



Witt O'Brien's is now part of the Ambipar Response group (NYSE: AMBI)

# Microsoft Teams meeting

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Click here to join the meeting

Meeting ID: 275 120 267 872

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Or call in (audio only)

<u>+1 281-810-2971,,111217061#</u> United States, Houston

Phone Conference ID: 111 217 061#

Find a local number | Reset PIN

<u>Learn More</u> | <u>Help</u> | <u>Meeting options</u>

#### Morganti, Chelsea

**Subject:** Lehigh Valley HMP - Workshop Session 2

**Location:** Northampton County Emergency Operations Center (EOC), 100 Gracedale Avenue,

Nazareth, PA 18064

**Start:** Wed 6/28/2023 2:00 PM **End:** Wed 6/28/2023 4:00 PM

**Recurrence:** (none)

**Meeting Status:** Meeting organizer

**Organizer:** Morganti, Chelsea

**Required Attendees:** Morganti, Chelsea; jmilot@hanovereng.com; ddereamus@suburbanems.org;

mmorella@vigilancehose.com; tbarnowski@northampton.edu

**Optional Attendees:** Kourtzidis, Demitra; Thomas Guth; Todd K. Weaver, ENP; tanyahook; John Semonich;

Kevin.krotzer@lehighcounty.org; Kevin Krotzer

Categories: Northampton

Thank you for signing up for our first in-person workshop to facilitate the update of the Lehigh Valley Hazard Mitigation Plan!

During this session we will

- Revisit the conversation around "Critical Facilities", "Community Lifelines", and "Community Assets" and validate our existing lists.
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- Discuss opportunities for public and stakeholder outreach.
- Cover any additional topics or questions that may come up in discussion.

Please review the capability section of your community's annex prior to the workshop. You can reach out to Northampton (Thomas Guth <a href="mailto:tguth@ncem-pa.org">tguth@ncem-pa.org</a>), Lehigh (John Semonich <a href="mailto:JohnSemonich@lehighcounty.org">JohnSemonich@lehighcounty.org</a>), or myself if you need a copy.



Witt O'Brien's is now part of the Ambipar Response group (NYSE: AMBI)

#### Morganti, Chelsea

**Subject:** Lehigh Valley HMP - Workshop Session 3

**Location:** Cetronia Ambulance Corps, 4300 Broadway, Allentown, PA 18104

**Start:** Thu 6/29/2023 7:00 AM **End:** Thu 6/29/2023 9:00 AM

**Recurrence:** (none)

**Meeting Status:** Meeting organizer

**Organizer:** Morganti, Chelsea

**Required Attendees:** manager@lowersaucontownship.org; joswald@weisenbergfire.com;

Pchrist@uppermac.org; zoning@lowersaucontownship.org;

petruccit@southwhitehall.com; mwehr@hanleco.org; wdavis@salisburytownshippa.org;

kmiller@emmauspa.gov; emschief@borough.emmaus.pa.us; John G. Frantz; bsmith@barryisett.com; msabatine@williamstwp.org; njones@lowermac.com

**Optional Attendees:** Kourtzidis, Demitra; Thomas Guth; Todd K. Weaver, ENP; tanyahook; John Semonich;

Kevin.krotzer@lehighcounty.org; Kevin Krotzer; EMS Chief; Glen Dorney

Categories: Northampton

#### **ADDRESS UPDATE**

Place: Cetronia Ambulance Corps, 4300 Broadway, Allentown, PA 18104

**Parking**: This facility has a large lot with free parking.

#### **Upon Arrival**:

- Please go to the double doors at the Cetronia Ambulance entrance.
- This is a secure facility, but they may temporarily unlock the doors as everyone arrives. If the
  doors are locked, please ring the buzzer to the right of the doors. Tell them you're there for a
  Hazard Mitigation Planning meeting.
- Proceed to Classroom 142 (the middle classroom)

Thank you for signing up for our first in-person workshop to facilitate the update of the Lehigh Valley Hazard Mitigation Plan!

During this session we will

- Revisit the conversation around "Critical Facilities", "Community Lifelines", and "Community Assets" and validate our existing lists.
- Review the FEMA Region III Community Capability Assessment Worksheet (attached) and capability sections of your HMP annexes.
- Discuss opportunities for public and stakeholder outreach.
- Cover any additional topics or questions that may come up in discussion.

Please review the capability section of your community's annex prior to the workshop. You can reach out to Northampton (Thomas Guth <a href="mailto:tguth@ncem-pa.org">tguth@ncem-pa.org</a>), Lehigh (John Semonich <a href="mailto:JohnSemonich@lehighcounty.org">JohnSemonich@lehighcounty.org</a>), or myself if you need a copy.



Witt O'Brien's is now part of the Ambipar Response group (NYSE: AMBI)

#### Morganti, Chelsea

**Subject:** Lehigh Valley HMP - Workshop Session 4

**Location:** Cetronia Ambulance Corps, 4300 Broadway, Allentown, PA 18104

**Start:** Thu 6/29/2023 2:00 PM **End:** Thu 6/29/2023 4:00 PM

**Recurrence:** (none)

**Meeting Status:** Meeting organizer

**Organizer:** Morganti, Chelsea

**Required Attendees:** scheirerg@gmail.com; DC25@ustpd.org; snemeth@alburtis.org;

sgallagher@palmertwp.com; carljm@rcn.com; arehrig@lehightownship.com;

spadacciachris@gmail.com; bartholomewfj@cetronia.org

**Optional Attendees:** Kourtzidis, Demitra; Thomas Guth; Todd K. Weaver, ENP; tanyahook; John Semonich;

Kevin.krotzer@lehighcounty.org; Kevin Krotzer; Alburtis Borough Office

Categories: Northampton

#### **ADDRESS UPDATE**

Place: Cetronia Ambulance Corps, 4300 Broadway, Allentown, PA 18104

**Parking**: This facility has a large lot with free parking.

#### **Upon Arrival**:

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- Proceed to Classroom 142 (the middle classroom)

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During this session we will

- Revisit the conversation around "Critical Facilities", "Community Lifelines", and "Community Assets" and validate our existing lists.
- Review the FEMA Region III Community Capability Assessment Worksheet (attached) and capability sections of your HMP annexes.
- Discuss opportunities for public and stakeholder outreach.
- Cover any additional topics or questions that may come up in discussion.

Please review the capability section of your community's annex prior to the workshop. You can reach out to Northampton (Thomas Guth <a href="mailto:tguth@ncem-pa.org">tguth@ncem-pa.org</a>), Lehigh (John Semonich <a href="mailto:JohnSemonich@lehighcounty.org">JohnSemonich@lehighcounty.org</a>), or myself if you need a copy.



Witt O'Brien's is now part of the Ambipar Response group (NYSE: AMBI)





# LEHIGH VALLEY HAZARD MITIGATION PLAN

Local Capability Workshops

JUNE 28 & 29, 2023

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# **AGENDA**





#### HAZARD MITIGATION PLANNING TEAM CONTACT LIST

- Please validate that your contact information on the sheet being passed around is correct.
- Help us contact your neighboring jurisdictions! If you see a name or information that you know to be invalid, please help us out by bringing it to our attention or sending an email.

#### **COUNTY REPRESENTATIVES**

NORTHAMPTON COUNTY

Thomas E. Guth, Jr. - Hazard Mitigation /Disaster Recovery Manager tguth@ncem-pa.org
610-746-3194 x3228

LEHIGH COUNTY

John Semonich, BS, NRP - Community Outreach Manager JohnSemonich@lehighcounty.org 610-782-4601





# **ELEMENT B: RISK ASSESSMENT REQUIREMENTS**





B2-a. The plan must describe the vulnerability of each participant to the identified hazards. The description must include current and future assets (including people) and the risk that makes them susceptible to damage from the identified hazards. (Requirement 44 CFR §201.6(c)(2)(i))

Vulnerability is a description of which assets, including structures, systems, populations and other assets as defined by the community, within locations identified to be hazard prone, are at risk from the effects of the identified hazard(s).

Assets are determined by the community and include, but are not limited to:

- People (including underserved communities and socially vulnerable populations).
- Structures (including facilities, lifelines and critical infrastructure).
- Systems (including networks and capabilities).
- Natural, historic, and cultural resources.
- Activities that have value to the community.



# **COMMUNITY LIFELINES VS. CRITICAL FACILITIES**





Planners will use the seven (7) FEMA Community Lifelines to understand how the hazard will affect the Community and how they might interact to amplify damage during an event.



### **ELEMENT E: PLAN UPDATE REQUIREMENTS**



E1-a. The plan must describe changes in development that have occurred in hazard-prone areas and how they have increased or decreased the vulnerability of each jurisdiction since the previous plan was approved. If no development changes affected the jurisdiction's overall vulnerability, this must be stated with the plan. (Requirement 44 CFR § 201.6(d)(3))

- Construction completed since the last plan was approved
- Potential development
- Climate change
- Declining populations or projected increases in population
- Foreclosures
- Shifts in the needs of underserved communities or gaps in social equity
- Changes in local policies, standards, codes, regulations, land use regulations and other conditions.



# ELEMENT C: MITIGATION STRATEGY REQUIREMENTS



C1. Does the plan document each jurisdiction's existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs?

(Requirement 44 CFR § 201.6(c)(3))

C1-a. The plan must describe how the existing **authorities**, **policies**, **programs**, **funding** and **resources** of each participant are available to support the mitigation strategy. This must include a discussion of the **existing building codes** and **land use** and **development ordinances or regulations**. Capabilities may be described in a table or narrative. *Describing the current capabilities provides a rationale for which mitigation projects can be undertaken to address the vulnerabilities identified in the Risk Assessment.* 

C1-b. The plan must describe the ability of each participant to **expand on** and **improve** the capabilities described in the plan. If the participants do not have the ability or authority to expand and/or improve their capabilities, the plan must **describe this lack of ability or authority**. Gaps and limitations for each participant may be addressed as actions in the mitigation strategy.





# ELEMENT C: PLANNING PROCESS REQUIREMENTS



A2-a. The plan must provide documentation of an opportunity for stakeholders to be involved in the current planning process. Documentation of this opportunity must identify how each of the following types of stakeholders were presented with this opportunity, as applicable. (Requirement 44 CFR § 201.6(b)(2))

- 1. Local and regional agencies involved in hazard mitigation activities: public works, emergency management, local floodplain administration and Geographic Information Systems (GIS) departments.
- 2. Agencies that have the authority to **regulate development**: zoning, planning, community and economic development departments; building officials; planning commissions; or other elected officials.
- 3. Neighboring communities: adjacent local governments, including special districts, such as those that are affected by similar hazard events or may share a mitigation action or project that crosses boundaries. Neighboring communities may be partners in hazard mitigation and response activities, or may be where critical assets, such as dams, are located.
- 4. Representatives of businesses, academia, and other **private organizations**: private utilities or major employers that sustain community lifelines.
- 5. Representatives of nonprofit organizations, including community-based organizations, that work directly with and/or provide support to underserved communities and socially vulnerable populations, among others: housing, healthcare or social service agencies.

An opportunity to be involved in the planning process means that these stakeholders are **invited to be engaged** or are **asked to provide information or input** to inform the plan's content.



### PEMA REQUIRED ENTITIES



- All county departments especially all planners and people with Geographic Information Systems capabilities
- All municipal governments
- Fire Departments, Ambulance Companies
- Hospitals and other residential health care facilities to include elder care facilities
- Organizations that care for, or advocate for, persons with disabilities
- School districts, any other educational institution particularly higher education do they have an environmental or planning department that can provide expertise or labor?
- State agencies that work in or have facilities in either county, especially Penn DOT, PSP, DCNR, DEP, DCED, and PHMC. Counties will focus the invitation to the state facilities in either county vs the agency as a whole, for example: Department of Transportation (Penn DOT) District Office or PA State Police (PSP) Troop vs the main office in Harrisburg.

(continues on next page)

### **PEMA REQUIRED ENTITIES**



- Adjacent counties Bucks, Berks, Carbon, Monroe, Montgomery, Schuylkill to include bordering state counties Warren County, New Jersey.
- Up and down stream counties of larger rivers
- Railroads, pipelines, power lines or other utilities that pass through either county
- Chambers of Commerce and large businesses
- Businesses with high hazard potential such as SARA facilities
- Representatives from federal facilities in either county
- Commanders of local National Guard Armories or Military Reserve Centers, U.S. Army corps of Engineers District
- Conservation district and private conservation organizations

(continues on next page)



## **PEMA REQUIRED ENTITIES**



- Chambers of commerce
- Volunteer disaster relief organizations such as the Red Cross
- Neighborhood groups and housing organizations
- Historical commissions and Historical preservation associations
- PEMA area office
- FEMA Region III Community Planners and HAZUS experts



# ELEMENT C: MITIGATION STRATEGY REQUIREMENTS



A3. Does the plan document how the public was involved in the planning process during the drafting stage and prior to plan approval? (Requirement 44 CFR § 201.6(b)(1))

A3-a. The plan must document how the public had an opportunity to be involved in the current planning process, and what that participation entailed, including how **underserved communities and vulnerable populations within the planning area were provided an opportunity to be involved**. The opportunity must occur during the plan's development, which means prior to the plan's submission for formal review. In addition, the plan must document how public feedback was included throughout the planning process.

Examples of documentation include, but are not limited to, narratives, materials from open meetings, screenshots of social media postings and/or interactive websites with drafts for public review and comment, questionnaires or surveys through utility bills, etc.







# **THANK YOU!**

For more information, please reach out to

Northampton County: Thomas E. Guth, Jr. tguth@ncem-pa.org or 610-746-3194 x3228

Lehigh County: John Semonich

JohnSemonich@lehighcounty.org or 610-7824601

Witt O'Brien's: Chelsea Morganti <a href="mailto:cmorganti@wittobriens.com">cmorganti@wittobriens.com</a> or 505-582-9514





# Region 3: Community Capability Assessment Worksheet

The capability assessment is a key part of your local mitigation planning process. It helps your community find and assess the resources it needs to reduce risk. Capability assessment findings will help you inform how you reduce risk, meet planning requirements, pinpoint specific resource needs and gaps, and support proactive planning to speed up recovery efforts.

### **Getting Started**

Use this worksheet to assess your community's capabilities in terms of hazard mitigation and risk reduction. This evaluation should help you see where your capabilities are strongest. It will also point out any gaps and areas for improvement.

### **Types of Capabilities**

- Planning and Regulatory: Planning and regulatory capabilities are plans, policies, codes and ordinances that
  prevent and reduce the impacts of hazards. These tools can guide development and manage growth in your
  community.
- 2. **Administrative and Technical:** Administrative and technical capabilities include staff and their skills and tools that can help carry out mitigation actions. These may be local staff and departments, as well as academic partners, regional planning and nonprofit and private organizations.
- 3. **Financial:** Financial capabilities include access to or eligibility to use funding resources for hazard mitigation. Think about state and federal funding programs, private and nonprofit resources, and internal funding sources.
- Education and Outreach: Education and outreach capabilities include programs and methods that could be
  used to carry out mitigation actions and share hazard-related information. These could include training sessions
  or awareness campaigns that build capacity.

### **Connecting Capabilities to the Disaster Recovery Timeline**

This worksheet uses the tags below to show when each capability tends to come into play during the disaster recovery timeline. You can change how each capability is tagged to reflect conditions in your community.

Phase	Timeline	Description	Symbol
Preparedness	Ongoing	Laying groundwork for recovery in case of an event.	P
Response	Days	Taking fast action to make sure the community is okay.	R
Intermediate Recovery	Weeks - Months	Short term response to find immediate solutions.	IR
Long-term Recovery	Months - Years	Focused on how to build back better for the future.	<b>□R</b>

# Worksheet

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Planning and Regulatory	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Can you use it to make your community more resilient to disasters?</li> <li>Does it reflect current standards and best practices? If not, what are the barriers to updating it?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> </ul>
Floodplain Management Regulations These are rules to ensure communities take flood hazards into account in building and land use. For communities taking part in the National Flood Insurance Program (NFIP), these must meet or exceed the minimum NFIP requirements.	P LR		
Building Codes These are rules that specify standards for built structures. Having higher standards in local building codes can help reduce risk.	P LR		

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Disaster Recovery Plan  This identifies the tools, resources and governance that communities may need after a disaster to ensure an expedited recovery.	P LR		
Substantial Damage Management Plan This is a regulatory requirement to assess potential damage to buildings; look at how to mitigate the potential for damage to those buildings; and lay out the strategy to address damage after any hazard event.	P LR		
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Administrative and Technical	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Do departments have enough staff?</li> <li>Do staff members understand their post-disaster roles and duties?</li> <li>Are staff well-trained?</li> <li>Are there onboarding and training materials for new staff members?</li> <li>How can capabilities be improved to further reduce risk?</li> </ul> </li> </ul>
Building Inspectors They administer and enforce building codes in a jurisdiction.	P R IR		
Floodplain Manager They carry out the local floodplain management regulations and make sure the community complies with minimum NFIP standards.	P R IR		
Emergency Manager They prepare and carry out plans and procedures for responding to natural disasters and emergencies.	P R LR		

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Geographic Information Systems (GIS) Specialist They provide the ability to access and analyze geospatial data that may affect planning efforts.	IR LR		
Grant Administrator and/or Writer  They identify grant opportunities, prepare grant applications, and work to meet requirements for secured grants.	IR IR		
Placeholder for additional capability			

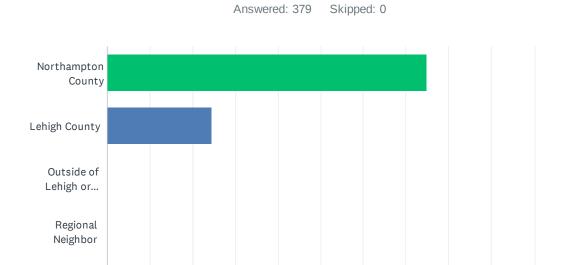
Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Financial	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the funding resource in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Could it be used to fund future post-disaster activities?</li> <li>How does the capability support more resilient rebuilding efforts? What can be done to improve the speed, ease and affordability of these rebuilding efforts?</li> </ul> </li> </ul>
FEMA Hazard Mitigation Grant Program This offers post- disaster funding for facilities. This is capped funding that is competitive across the state. *406 Mitigation only applies to damaged facilities	IR LR		
FEMA Public Assistance This offers post- disaster funding for damaged facilities. There is no cap on this funding; it is non-competitive.	R IR		
State Funding Programs These offer funding at the state level to provide mitigation and post-disaster support.	P (R		

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Local Funding Sources These offer funds at the local level through programs such as bonds, impact fees, etc.	P LR		
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Education and Outreach	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the program/method in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Can it be used to carry out future post-disaster activities?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> <li>For information platforms:         <ul> <li>If you have used the platform in the past, did you find any areas to improve on?</li> <li>Do you have the resources to update the information right after a disaster?</li> </ul> </li> </ul>
Websites These are an outlet to post information online.	P R IR		
Newsletters These are an outlet for periodic mailings.	P R IR		

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Permits and Forms These are permits and forms that address the Special Flood Hazard Area.	R IR		
Handouts These are handouts to share at a central location so community members can learn information.	R IR		
Trained Outreach Staff They are resources to help the public be more confident with mitigation, recovery and response initiatives.	P LR		
Placeholder for additional capability			

## Q1 Which County do you currently live in?



40%

50%

60%

70%

80%

90%

100%

Other (please specify)

0%

10%

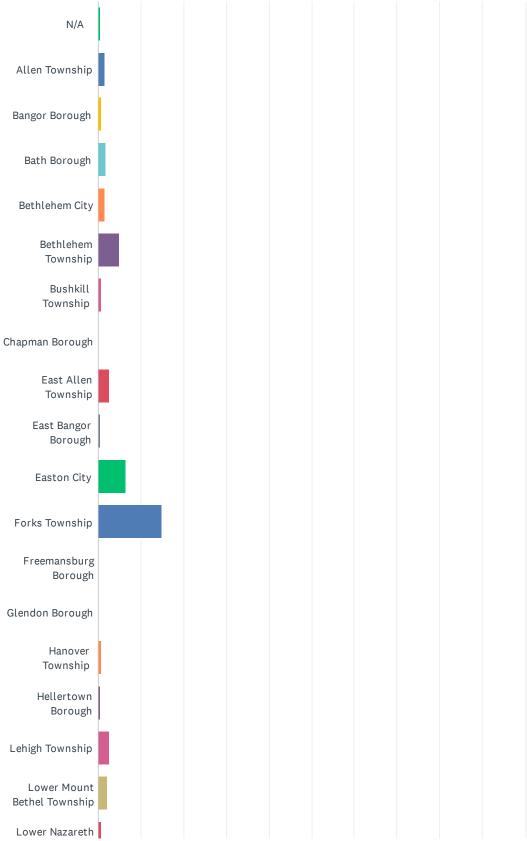
20%

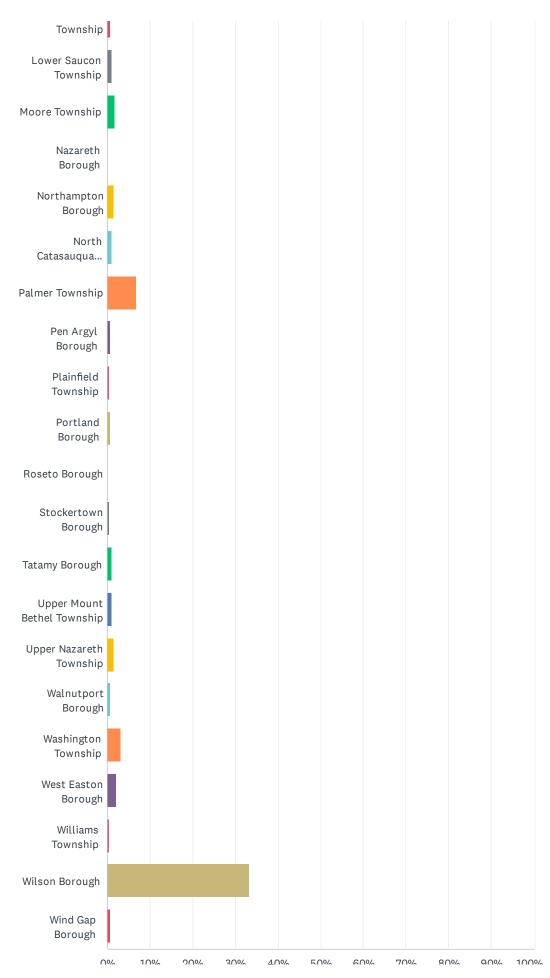
30%

ANSWER CHOICES	RESPONSES	
Northampton County	74.93%	284
Lehigh County	24.54%	93
Outside of Lehigh or Northampton	0.00%	0
Regional Neighbor	0.00%	0
Other (please specify)	0.53%	2
TOTAL		379

## Q2 Which Northampton County municipality do you live in?







U/U 1U/U 2U/U 3U/U TU/U 3U/U 0U/U 1U/U 0U/U 3U/U 1UU/U

### Northampton and Lehigh County Hazards - Public Opinion Survey

ANSWER CHOICES	RESPONSES	
N/A	0.35%	1
Allen Township	1.42%	4
Bangor Borough	0.71%	2
Bath Borough	1.77%	5
Bethlehem City	1.42%	4
Bethlehem Township	4.96%	14
Bushkill Township	0.71%	2
Chapman Borough	0.00%	0
East Allen Township	2.48%	7
East Bangor Borough	0.35%	1
Easton City	6.38%	18
Forks Township	14.89%	42
Freemansburg Borough	0.00%	0
Glendon Borough	0.00%	0
Hanover Township	0.71%	2
Hellertown Borough	0.35%	1
Lehigh Township	2.48%	7
Lower Mount Bethel Township	2.13%	6
Lower Nazareth Township	0.71%	2
Lower Saucon Township	1.06%	3
Moore Township	1.77%	5
Nazareth Borough	0.00%	0
Northampton Borough	1.42%	4
North Catasauqua Borough	1.06%	3
Palmer Township	6.74%	19
Pen Argyl Borough	0.71%	2
Plainfield Township	0.35%	1
Portland Borough	0.71%	2
Roseto Borough	0.00%	0
Stockertown Borough	0.35%	1
Tatamy Borough	1.06%	3
Upper Mount Bethel Township	1.06%	3

### Northampton and Lehigh County Hazards - Public Opinion Survey

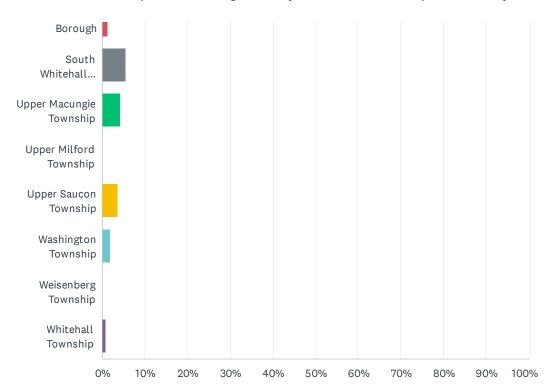
Upper Nazareth Township Walnutport Borough	1.42% 0.71%	4
Washington Township	3.19%	9
West Easton Borough	2.13%	6
Williams Township	0.35%	1
Wilson Borough	33.33%	94
Wind Gap Borough	0.71%	2
TOTAL		282

## Q3 Which Lehigh County municipality do you live in?





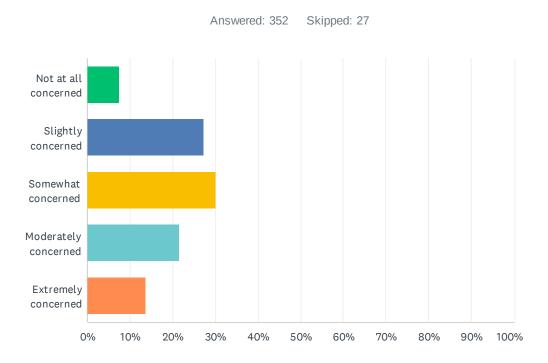
### Northampton and Lehigh County Hazards - Public Opinion Survey



### Northampton and Lehigh County Hazards - Public Opinion Survey

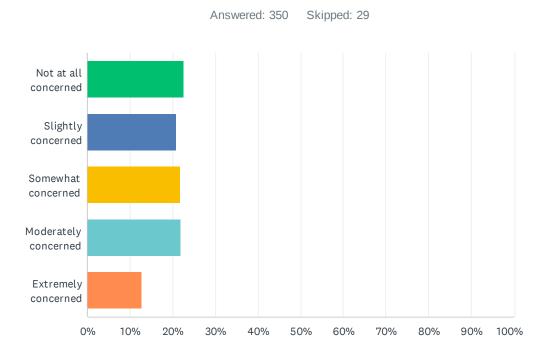
ANSWER CHOICES	RESPONSES	
N/A	62.99%	160
Alburtis Borough	1.18%	3
Allentown City	2.76%	7
Bethlehem City	1.18%	3
Catasauqua Borough	1.18%	3
Coopersburg Borough	0.39%	1
Coplay Borough	0.39%	1
Emmaus Borough	0.79%	2
Fountain Hill Borough	0.39%	1
Hanover Township	0.39%	1
Heidelberg Township	1.18%	3
Lower Macungie Township	1.18%	3
Lower Milford Township	0.39%	1
Lowhill Township	1.18%	3
Lynn Township	0.79%	2
Macungie Borough	0.00%	0
North Whitehall Township	2.36%	6
Salisbury Township	3.94%	10
Slatington Borough	1.18%	3
South Whitehall Township	5.51%	14
Upper Macungie Township	4.33%	11
Upper Milford Township	0.00%	0
Upper Saucon Township	3.54%	9
Washington Township	1.97%	5
Weisenberg Township	0.00%	0
Whitehall Township	0.79%	2
TOTAL		254

Q4 Natural hazards are natural phenomena that might have a negative effect on humans and other animals, or the environment (like flood, fire, drought, or earthquake). Generally speaking, how concerned are you about your community (within Northampton or Lehigh County) being impacted by a natural disaster?



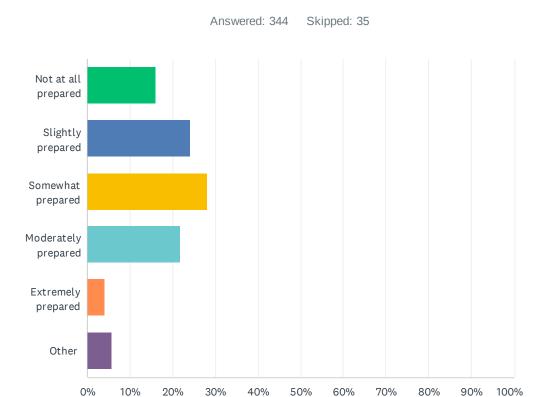
ANSWER CHOICES	RESPONSES
Not at all concerned	7.39% 26
Slightly concerned	27.27% 96
Somewhat concerned	30.11% 106
Moderately concerned	21.59% 76
Extremely concerned	13.64% 48
TOTAL	352

# Q5 How concerned are you about natural hazard impacts from climate change within your community (within Northampton or Lehigh County)?



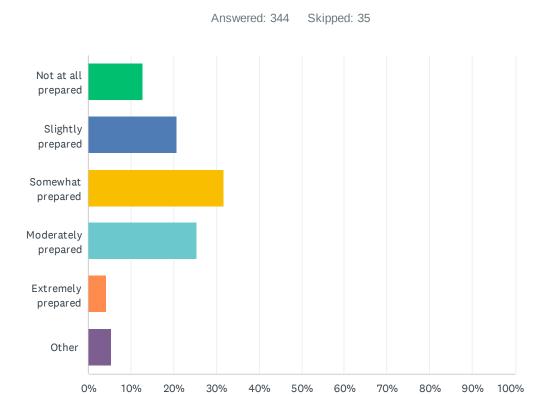
ANSWER CHOICES	RESPONSES	
Not at all concerned	22.57%	79
Slightly concerned	20.86%	73
Somewhat concerned	21.71%	76
Moderately concerned	22.00%	77
Extremely concerned	12.86%	45
TOTAL	3	350

# Q6 How well prepared do you think your municipality is for a natural disaster?



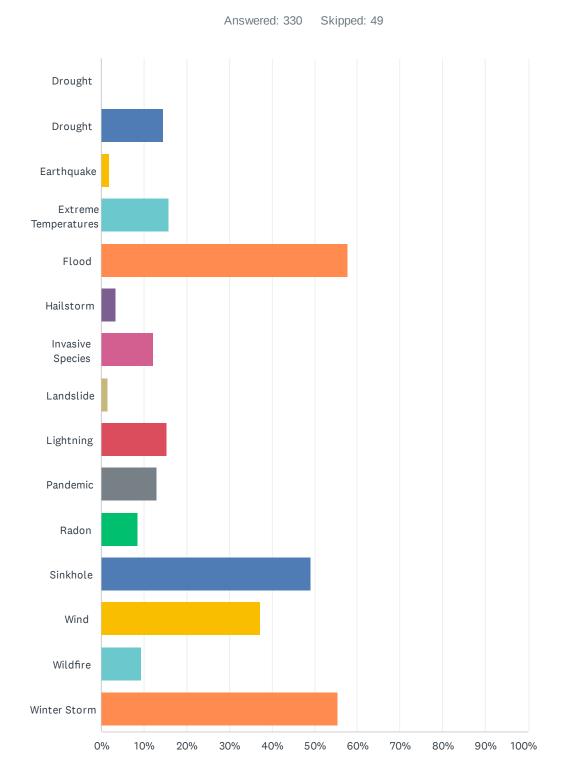
ANSWER CHOICES	RESPONSES	
Not at all prepared	15.99%	55
Slightly prepared	24.13%	83
Somewhat prepared	28.20%	97
Moderately prepared	21.80%	75
Extremely prepared	4.07%	14
Other	5.81%	20
TOTAL	34	44

## Q7 How well prepared do you think your County is for a natural disaster?



ANSWER CHOICES	RESPONSES	
Not at all prepared	12.79%	44
Slightly prepared	20.64%	71
Somewhat prepared	31.69%	09
Moderately prepared	25.29%	87
Extremely prepared	4.36%	15
Other	5.23%	18
TOTAL	34	44

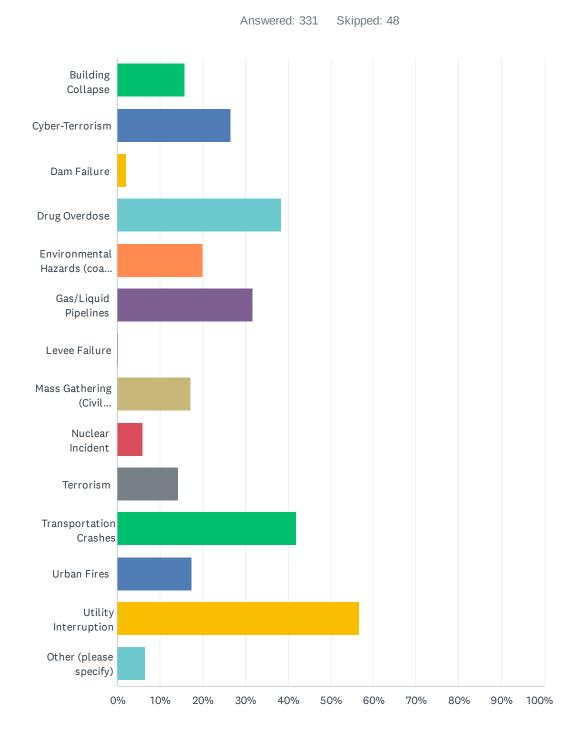
# Q8 Please select the top three (3) natural hazards that you think present the greatest threat to your community (within Lehigh or Northampton County). Please select only 3.



### Northampton and Lehigh County Hazards - Public Opinion Survey

ANSWER CHOICES	RESPONSES	
Drought	0.00%	0
Drought	14.55%	48
Earthquake	1.82%	6
Extreme Temperatures	15.76%	52
Flood	57.88%	191
Hailstorm	3.33%	11
Invasive Species	12.12%	40
Landslide	1.52%	5
Lightning	15.45%	51
Pandemic	13.03%	43
Radon	8.48%	28
Sinkhole	49.09%	162
Wind	37.27%	123
Wildfire	9.39%	31
Winter Storm	55.45%	183
Total Respondents: 330		

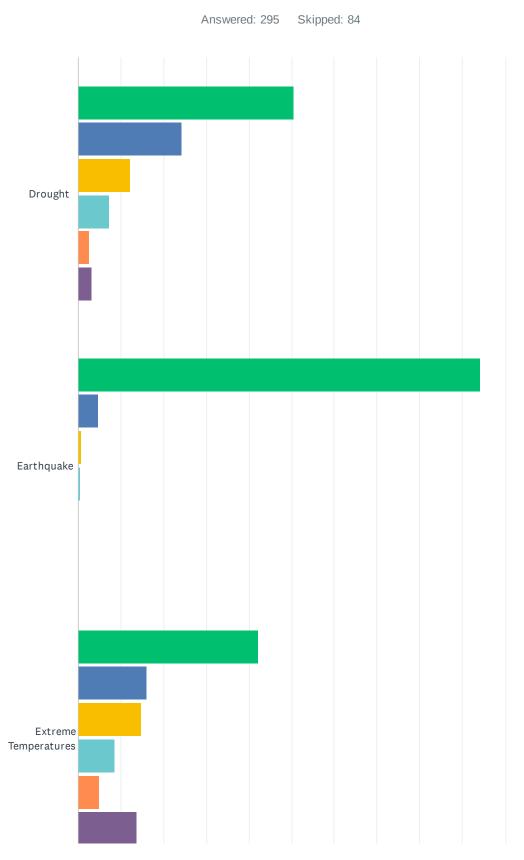
# Q9 Please select the top three (3) human-caused hazards that you think present the greatest threat to your community (within Lehigh or Northampton County. Please select only 3.

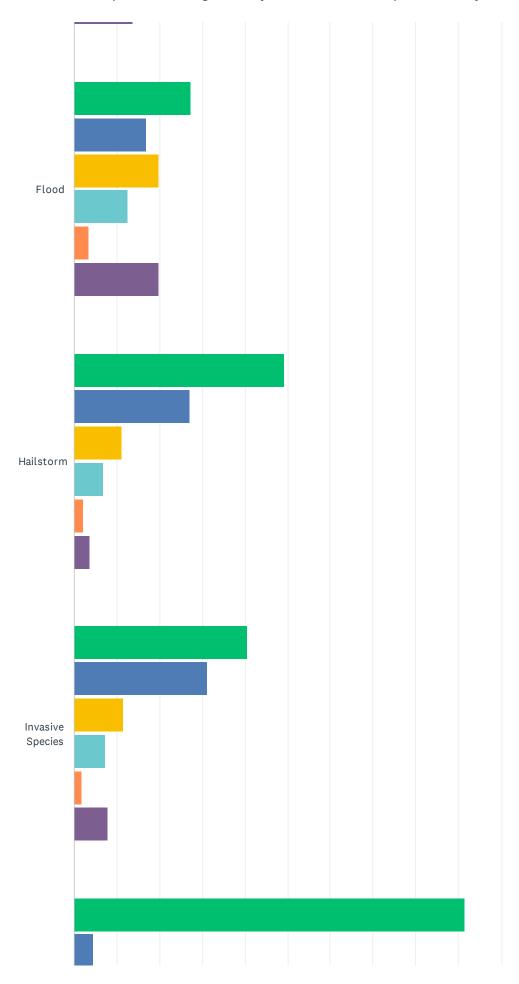


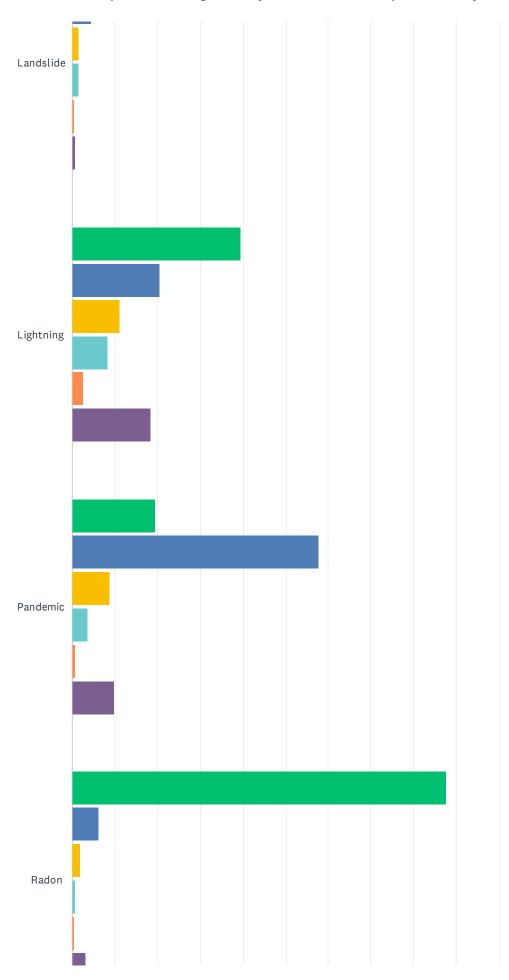
### Northampton and Lehigh County Hazards - Public Opinion Survey

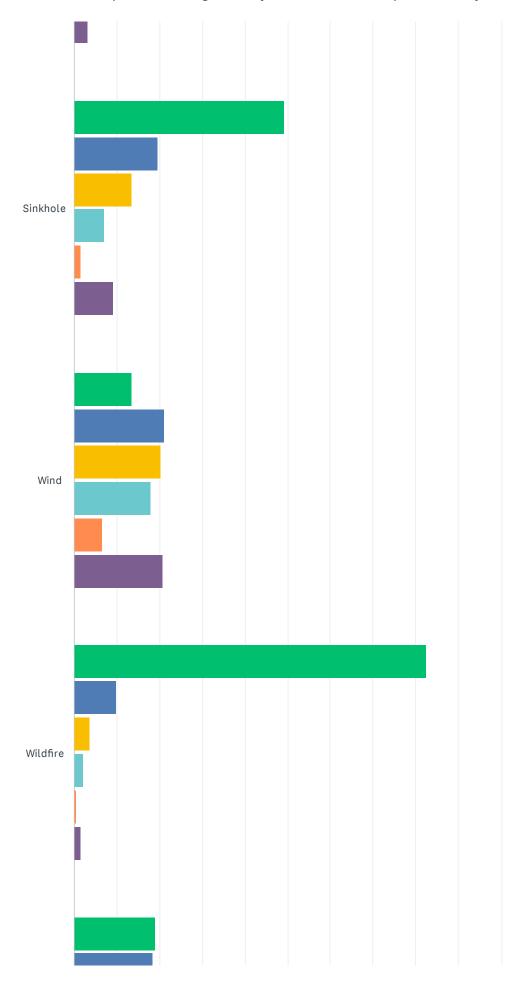
ANSWER CHOICES	RESPON	SES
Building Collapse	15.71%	52
Cyber-Terrorism	26.59%	88
Dam Failure	2.11%	7
Drug Overdose	38.37%	127
Environmental Hazards (coal mining, unconventional or conventional oil and gas, chemical/toxic accidents)	19.94%	66
Gas/Liquid Pipelines	31.72%	105
Levee Failure	0.30%	1
Mass Gathering (Civil Disturbance)	17.22%	57
Nuclear Incident	6.04%	20
Terrorism	14.20%	47
Transportation Crashes	41.99%	139
Urban Fires	17.52%	58
Utility Interruption	56.80%	188
Other (please specify)	6.65%	22
Total Respondents: 331		

Q10 How many times in the last 5 years, while living here, have the following natural hazards caused harm, endangered lives, or damaged property at your home or in your community?

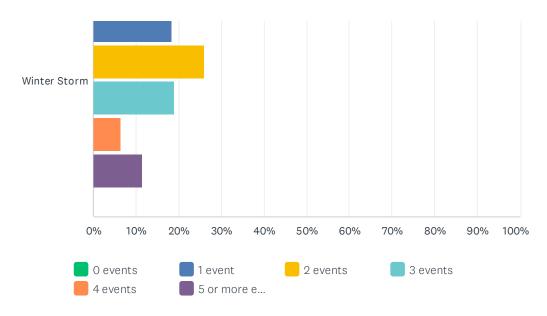






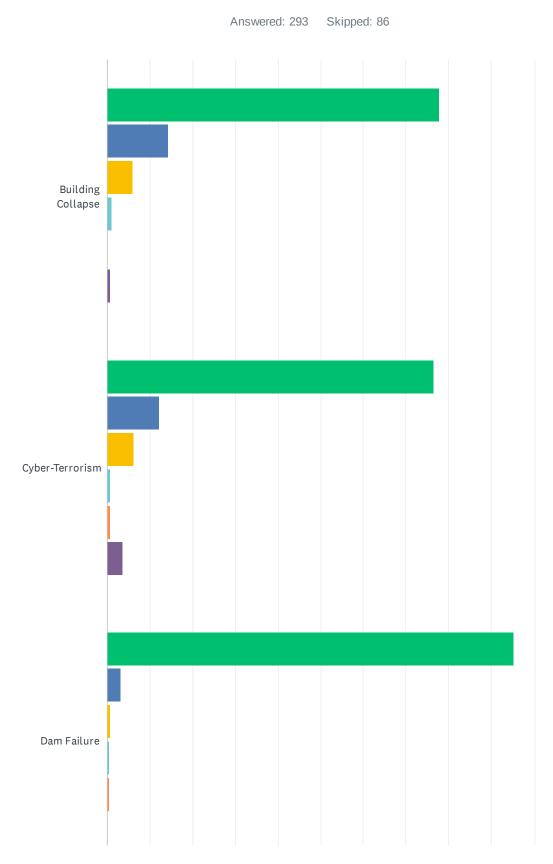


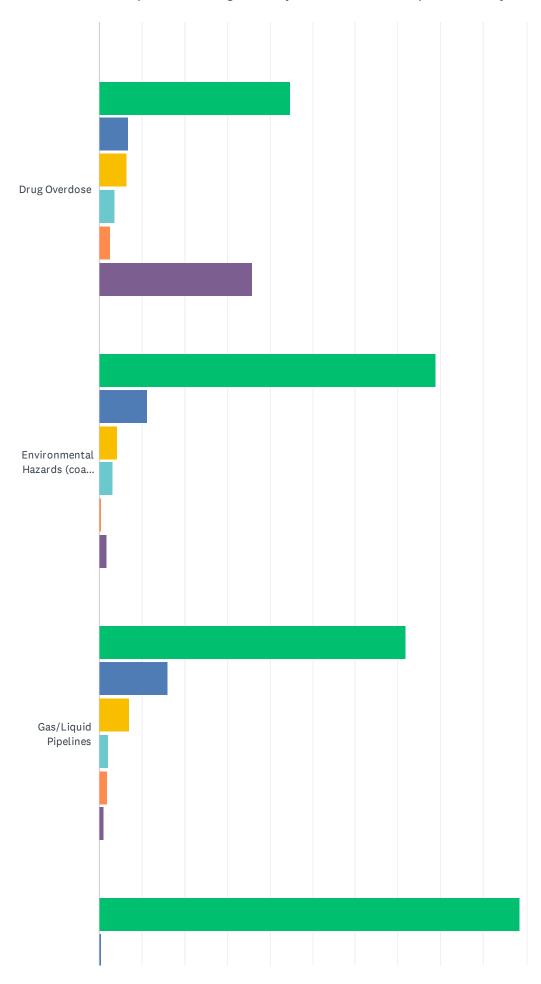
### Northampton and Lehigh County Hazards - Public Opinion Survey

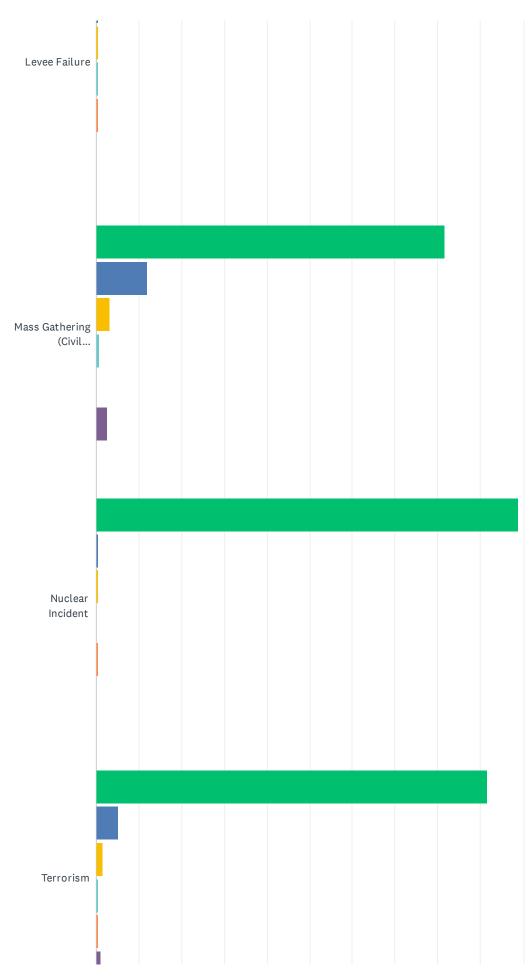


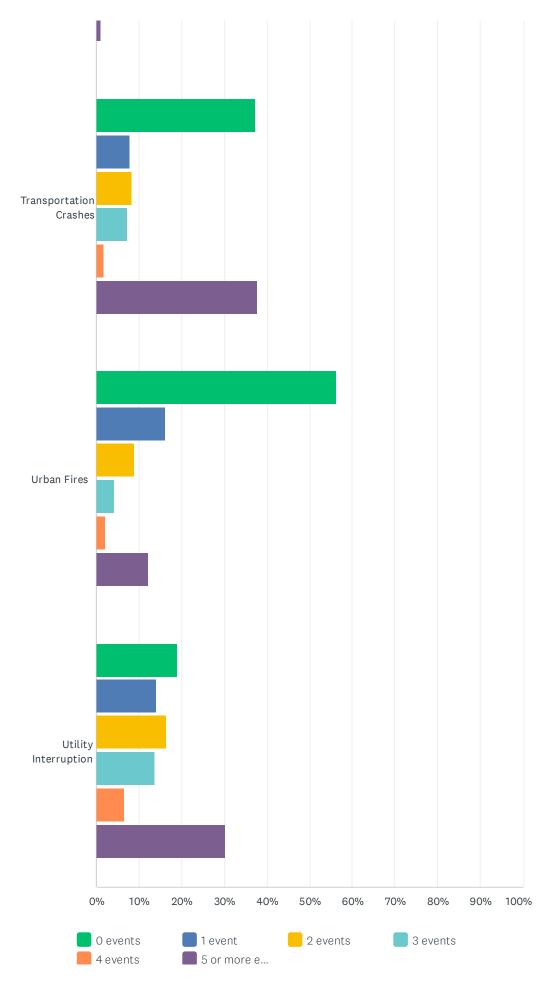
	0 EVENTS	1 EVENT	2 EVENTS	3 EVENTS	4 EVENTS	5 OR MORE EVENTS	TOTAL	WEIGHTED AVERAGE
Drought	50.54% 141	24.37% 68	12.19% 34	7.17% 20	2.51% 7	3.23% 9	279	1.96
Earthquake	94.14% 257	4.76% 13	0.73%	0.37%	0.00%	0.00%	273	1.07
Extreme Temperatures	42.14% 118	16.07% 45	14.64% 41	8.57% 24	5.00% 14	13.57% 38	280	2.59
Flood	27.27% 78	16.78% 48	19.93% 57	12.59% 36	3.50% 10	19.93% 57	286	3.08
Hailstorm	49.29% 138	27.14% 76	11.07% 31	6.79% 19	2.14%	3.57% 10	280	1.96
Invasive Species	40.50% 113	31.18% 87	11.47% 32	7.17% 20	1.79% 5	7.89% 22	279	2.22
Landslide	91.54% 249	4.41% 12	1.47%	1.47%	0.37%	0.74%	272	1.17
Lightning	39.43% 110	20.43% 57	11.11% 31	8.24% 23	2.51% 7	18.28% 51	279	2.69
Pandemic	19.49% 54	57.76% 160	8.66% 24	3.61% 10	0.72%	9.75% 27	277	2.38
Radon	87.64% 241	6.18% 17	1.82% 5	0.73%	0.36%	3.27% 9	275	1.30
Sinkhole	49.30% 140	19.72% 56	13.38% 38	7.04% 20	1.41%	9.15% 26	284	2.19
Wind	13.33% 38	21.05% 60	20.35% 58	17.89% 51	6.67% 19	20.70% 59	285	3.46
Wildfire	82.42% 225	9.89% 27	3.66% 10	2.20%	0.37%	1.47%	273	1.33
Winter Storm	18.95% 54	18.25% 52	25.96% 74	18.95% 54	6.32% 18	11.58% 33	285	3.10

Q11 How many times in the last 5 years, while living here, have the following human-caused hazards caused harm, endangered lives, or damaged property at your home or in your community?



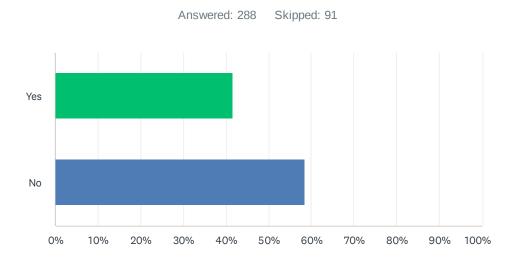






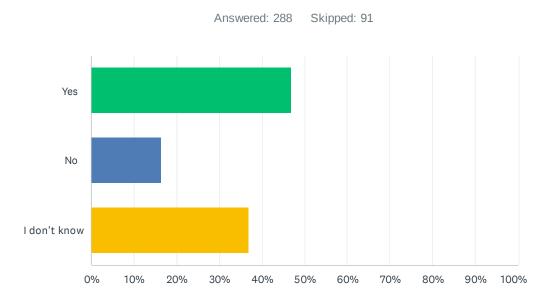
	0 EVENTS	1 EVENT	2 EVENTS	3 EVENTS	4 EVENTS	5 OR MORE EVENTS	TOTAL	WEIGHTED AVERAGE
Building Collapse	77.86% 218	14.29% 40	6.07% 17	1.07% 3	0.00%	0.71% 2	280	1.33
Cyber-Terrorism	76.47% 208	12.13% 33	6.25% 17	0.74%	0.74%	3.68%	272	1.48
Dam Failure	95.27% 262	3.27%	0.73%	0.36%	0.36%	0.00%	275	1.07
Drug Overdose	44.80% 125	6.81% 19	6.45% 18	3.58% 10	2.51% 7	35.84% 100	279	3.20
Environmental Hazards (coal mining, unconventional or conventional oil and gas wells, hazardous materials release)	78.99% 218	11.23% 31	4.35% 12	3.26%	0.36%	1.81%	276	1.40
Gas/Liquid Pipelines	71.85% 194	15.93% 43	7.04% 19	2.22% 6	1.85% 5	1.11%	270	1.50
Levee Failure	98.56% 273	0.36%	0.36%	0.36%	0.36%	0.00%	277	1.04
Mass Gathering (Civil Disturbance)	81.65% 227	11.87% 33	3.24%	0.72%	0.00%	2.52% 7	278	1.33
Nuclear Incident	98.91% 273	0.36%	0.36%	0.00%	0.36%	0.00%	276	1.03
Terrorism	91.64% 252	5.09% 14	1.45% 4	0.36%	0.36%	1.09%	275	1.16
Transportation Crashes	37.28% 104	7.89% 22	8.24% 23	7.17% 20	1.79% 5	37.63% 105	279	3.41
Urban Fires	56.27% 157	16.13% 45	8.96% 25	4.30% 12	2.15%	12.19% 34	279	2.16
Utility Interruption	18.95% 54	14.04% 40	16.49% 47	13.68% 39	6.67% 19	30.18% 86	285	3.66

# Q12 Have you taken any actions to make your home, business, or neighborhood more resilient to natural hazards?



ANSWER CHOICES	RESPONSES	
Yes	41.67%	120
No	58.33%	168
TOTAL		288

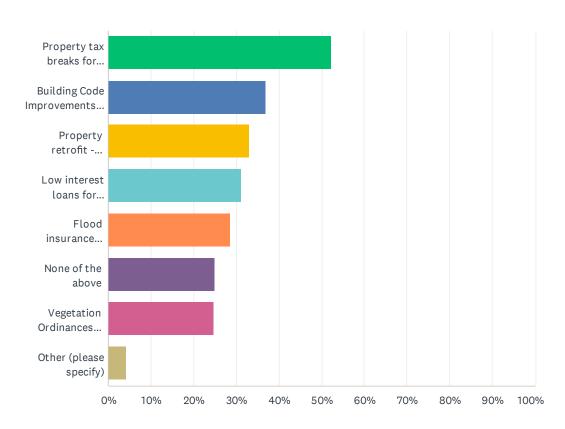
Q13 If offered, would you be interested in participating in any residential Mitigation activities? This can include flood-proofing your home for insurance discounts, property tax breaks, or low-interest loans, removal of vegetation to create a "defensible space" around your home, etc.



ANSWER CHOICES	RESPONSES	
Yes	46.88%	135
No	16.32%	47
I don't know	36.81%	106
TOTAL		288

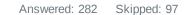
# Q14 Are there any programs you would like to see offered? Check all that apply

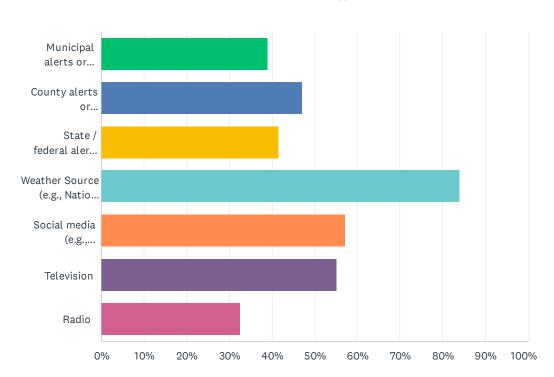




ANSWER CHOICES	RESPON	ISES
Property tax breaks for implementing protections (example: installation of Hurricane Straps to distribute the force of high winds, tornados, and hurricanes more equally, reducing roof damage and collapse)	52.17%	144
Building Code Improvements (example: Hurricane straps - distribute the force of high winds, tornados, and hurricanes more equally, reducing roof damage and collapse)	36.96%	102
Property retrofit - where a portion of the cost is supplied by the city or grant funding (example: elevation or floodproofing your home)	32.97%	91
Low interest loans for property-specific protections (example: elevation or floodproofing your home)	31.16%	86
Flood insurance discounts (example: participation in the Community Rating System)	28.62%	79
None of the above	25.00%	69
Vegetation Ordinances (example: creating Defensible Space between vegetation and structures to reduce fire spread)	24.64%	68
Other (please specify)	4.35%	12
Total Respondents: 276		

# Q15 How do you receive warnings regarding severe weather events? Please check all that apply.





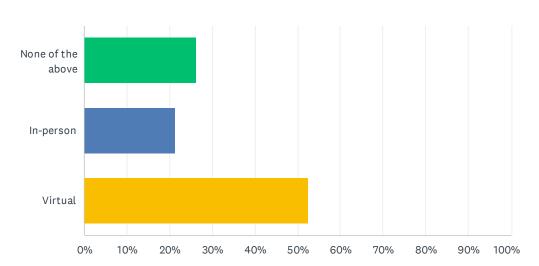
ANSWER CHOICES	RESPONSES	5
Municipal alerts or notifications (e.g., Nixle, etc.)	39.01%	110
County alerts or notifications	47.16%	133
State / federal alerts or notifications (e.g., Commonwealth of PA, PEMA, FEMA, etc.)	41.49%	117
Weather Source (e.g., National Weather Service (NWS), NOAA, etc.)	84.04%	237
Social media (e.g., Facebook, Twitter, etc.)	57.09%	161
Television	55.32%	156
Radio	32.62%	92
Total Respondents: 282		

Q16 Do you have anything you would like to add? Ideas or thoughts you would like to share about risk reduction, resiliency, or vulnerability to natural disasters? Please describe.

Answered: 74 Skipped: 305

# Q17 Would you prefer an in-person or virtual public meeting on the Hazard Mitigation Plan?

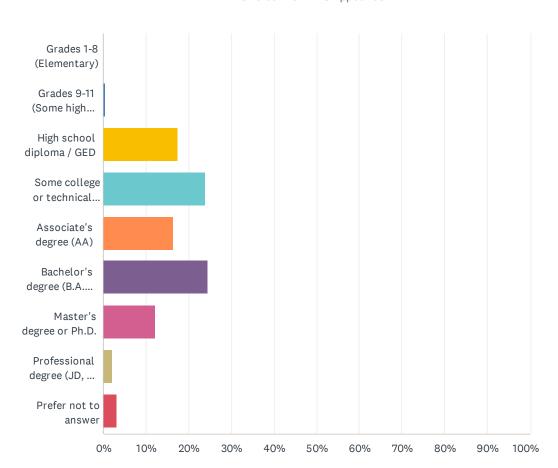




ANSWER CHOICES	RESPONSES	
None of the above	26.23%	48
In-person	21.31%	39
Virtual	52.46%	96
TOTAL		183

### Q18 What is the highest level of education you have attained?

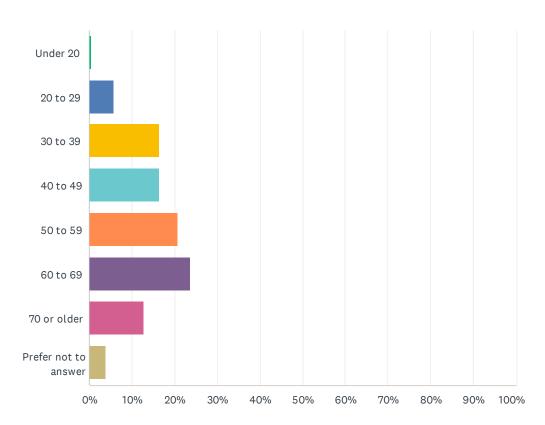




ANSWER CHOICES	RESPONSES	
Grades 1-8 (Elementary)	0.00%	0
Grades 9-11 (Some high school)	0.36%	1
High school diploma / GED	17.44%	49
Some college or technical school	23.84%	67
Associate's degree (AA)	16.37%	46
Bachelor's degree (B.A. or B.S.)	24.56%	69
Master's degree or Ph.D.	12.10%	34
Professional degree (JD, MD, MBA)	2.14%	6
Prefer not to answer	3.20%	9
TOTAL		281

### Q19 What is your age?

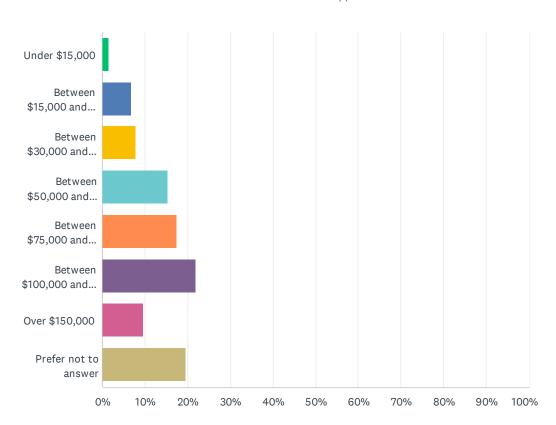
Answered: 280 Skipped: 99



ANSWER CHOICES	RESPONSES	
Under 20	0.36%	1
20 to 29	5.71%	16
30 to 39	16.43%	46
40 to 49	16.43%	46
50 to 59	20.71%	58
60 to 69	23.57%	66
70 or older	12.86%	36
Prefer not to answer	3.93%	11
TOTAL		280

## Q20 What is your average annual household income? (Before taxes)

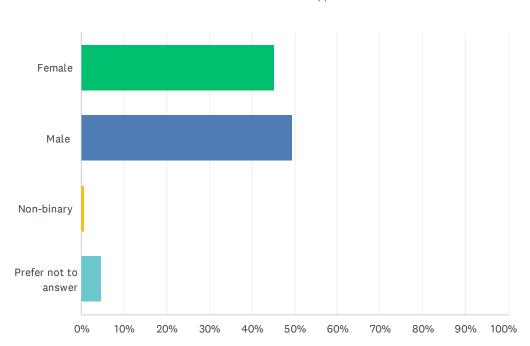




ANSWER CHOICES	RESPONSES	
Under \$15,000	1.42%	4
Between \$15,000 and \$29,999	6.76%	19
Between \$30,000 and \$49,999	7.83%	22
Between \$50,000 and \$74,999	15.30%	43
Between \$75,000 and \$99,999	17.44%	49
Between \$100,000 and \$149,999	22.06%	62
Over \$150,000	9.61%	27
Prefer not to answer	19.57%	55
TOTAL		281

### Q21 How would you describe your gender?

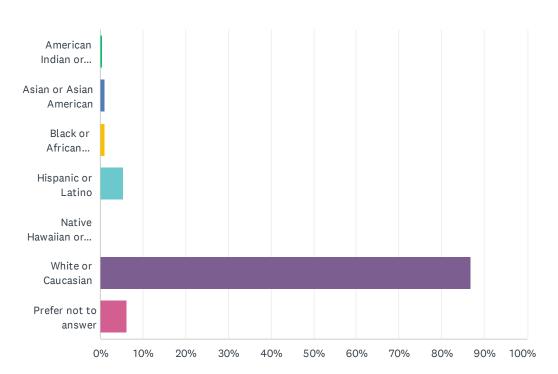




ANSWER CHOICES	RESPONSES	
Female	45.20%	127
Male	49.47%	139
Non-binary	0.71%	2
Prefer not to answer	4.63%	13
TOTAL		281

### Q22 How would you describe your race? You may select more than one.





ANSWER CHOICES	RESPONSES	
American Indian or Alaska Native	0.36%	1
Asian or Asian American	1.08%	3
Black or African American	1.08%	3
Hispanic or Latino	5.38%	15
Native Hawaiian or other Pacific Islander	0.00%	0
White or Caucasian	86.74%	242
Prefer not to answer	6.09%	17
Total Respondents: 279		

From: Morganti, Chelsea
To: Thomas Guth
Cc: Todd K. Weaver, ENP
Subject: Municipality Invitation

**Date:** Monday, September 25, 2023 4:06:00 PM

Attachments: <u>image001.pnq</u>

R3 Community Capability Assessment Worksheet.docx

#### Hi Tom.

Please modify this language as you see fit. You can either copy me on the email or forward it after it's been sent, but we would like to have record of this going out to your municipalities for the process documentation folder. Thanks!

#### The contacts are:

garykrill@gmail.com; manager@allentownship.org; jkresge@bangorborough.org; sreider@bangorborough.org; manager@boroughofbath.org; emc@boroughofbath.org; wachey@bethlehem-pa.gov; rnovatnack@bethlehem-pa.gov; akelly@bethlehemtownship.org; dbruce@bethlehemtownship.org; belinda@bushkilltownship.com; tbarnowski@northampton.edu; cwfehnelcpa@epix.net; lvydot1@verizon.net; manager@eatwp.org; jmilot@hanovereng.com; chiefmulligan@eastbangorborough.org; firechief3151@yahoo.com; cmanges@easton-pa.gov; snowroski@easton-pa.gov; dasure@forkstownship.org; mroberts@forkstownship.org; chief@boroughoffreemansburg.org; emc@boroughoffreemansburg.org; glendonboro@rcn.com; glendonboro@rcn.com; jfinnigan@hanovertwp-nc.org; mlimpar@hanovertwp-nc.org; bsmith@barryisett.com; c.hartranft@hellertownborough.org; arehrig@lehightownship.com; sfogel@lehightownship.com; manager@lowermtbethel.org; jcoyle@carrollengineering.com; lseese@lowernazareth.com; lstauffer@lowernazareth.com; emermgt@lowersaucontownship.org; manager@lowersaucontownship.org; manager@lowersaucontownship.org; khorvath@kceinc.com; emc@mooretownship.org; mmorella@vigilancehose.com; pakofnazpa@gmail.com; scheirerg@gmail.com; northcatasauquaema@vahoo.com; northamptonpd@rcn.com; leroyb@enter.net; kbaird@palmertwp.com; sgallagher@palmertwp.com; manager@penargylborough.com; parks@penargylborough.com; manager@plainfieldtownship.org; mayorhfischer@gmail.com; stephsteele@yahoo.com; rosbor@epix.net; bcollura@epix.net; stockworks@rcn.com; ddereamus@suburbanems.org; Borough.office@tatamypa.com; billwill@epix.net; roadcrewchief@umbt.org; manager@uppernazarethtownship.org; rinknc38@rcn.com; alacko@walnutportpa.org; Wtpd3807@washington-township.com; dcd409@aol.com; coolrunnings@ptd.net; mstrawn@williamstwp.org; msabatine@williamstwp.org; firechief@wilsonborough.org; mwall@tandmassociates.com; lfirestone@windgap-pa.gov

Hello Northampton - Hazard Mitigation Planning Team,

After a flood-impacted summer, we are pleased to begin the next stage of the mitigation plan development. Please join us for a Hazard Identification and Risk Assessment Review Meeting. We are offering two in-person options, on two days, in two locations to encourage your participation. Please plan to attend whichever is more convenient. Calendar invitations will be sent separately for each meeting shortly. You must attend at least one (1) meeting and complete at least one (1) worksheet to be counted as a participating jurisdiction. If your entity does not participate, you will not be

eligible to apply for project funding. The next meetings will be held:

**Thursday October 19<sup>th</sup> from 4-6pm** at the Northampton County Emergency Operations Center (EOC), 100 Gracedale Avenue, Nazareth, PA 18064 AND

**Friday October 20<sup>th</sup> from 9-11am** at the Cetronia Ambulance Corps, 4300 Broadway, Allentown, PA 18104

We are also hosting open "office hours" hours to answer questions and chat about the plan. Please come by **Thursday October 19<sup>th</sup> between 12pm-4pm at the Northampton EOC** or **Friday October 20<sup>th</sup> from 11am-3pm at the Cetronia Ambulance Corps**. Attending one of these information discussion sessions will also count towards your meeting attendance requirement.

To meet the worksheet requirement you may either:

- 1. Complete the attached FEMA Region III Capability Assessment Worksheet.
- 2. Send an email to <a href="mailto:cmorganti@wittobriens.com">cmorganti@wittobriens.com</a> confirming that you have reviewed your annex and everything is correct, or provide updates to
  - Community Assets
  - Capabilities

Information relating to the plan (including your annex) can be accessed here: General



#### Chelsea Morganti

Director of Hazard Mitigation +1 505 582 9514 (mobile)

+1 985 781 0804 (24/7 emergency) wittobriens.com | ambipar.com

Witt O'Brien's is now part of the Ambipar Response group (NYSE: AMBI)

#### Morganti, Chelsea

From: Morganti, Chelsea

Sent: Monday, September 25, 2023 4:14 PM

**To:** tracym@alburtis.org; snemeth@alburtis.org; wachey@bethlehem-pa.gov;

rnovatnack@bethlehem-pa.gov; emergencymanagement@catasaugua.org;

manager@catasauqua.org; lee.lauback@allentownpa.gov;

efrain.agosto@allentownpa.gov; tpaashaus@coopersburgborough.org;

astruss@coopersburpd.org; tbenson@coplayborough.org;

publicworks@coplayborough.org; kmiller@emmauspa.gov; EMSchief@emmauspa.gov;

pw@fhboro.org; mwehr@hanleco.org; spadacciachris@gmail.com; vtanguch@lowermac.com; njones@lowermac.com; tammyw@ptd.net;

manager@macungie.pa.us; rdeemer@northwhitehall.org; cgarges@northwhitehall.org;

Tcunningham@salisburytownship.org; janems69@aol.com; petruccit@southwhitehall.com; manhardt@southwhitehall.com;

dorneyg@southwhitehall.com; Pchrist@uppermac.org; ddellecker@uppermac.org; kwalbert@uppermilford.net; ecarter@uppermilford.net; pleonard@uppersaucon.org;

DC25@ustpd.org; washtwpemc@ptd.net; fbartholomew@weisenbergfire.com;

brian@weisenbergtownship.org; cgrim@whitehalltownship.com;

jrackus@whitehalltownship.com

**Cc:** John Semonich; tanyahook; Thomas Guth; Todd K. Weaver, ENP; Duffy, Mark W; Foss,

Steven; Norris, Katherine

**Subject:** Mitigation Plan - Hazard and Risk Meeting

Attachments: R3\_Community Capability Assessment Worksheet.docx

Hello Lehigh County - Hazard Mitigation Planning Team,

After a flood-impacted summer, we are pleased to begin the next stage of the mitigation plan development. Please join us for a Hazard Identification and Risk Assessment Review Meeting. We are offering two in-person options, on two days, in two locations to encourage your participation. Please plan to attend whichever is more convenient. Calendar invitations will be sent separately for each meeting shortly. You must attend at least one (1) meeting and complete at least one (1) worksheet to be counted as a participating jurisdiction. If your entity does not participate, you will not be eligible to apply for project funding. The next meetings will be held:

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  OR
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  - Community Assets
  - Capabilities

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#### Chelsea Morganti

Director of Hazard Mitigation +1 505 582 9514 (mobile)

Witt O'Brien's is now part of the Ambipar Response group (NYSE: AMBI)







LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE

**Hazards and Risk Review** Meeting

OCTOBER 19, 2023

wittobriens.com





















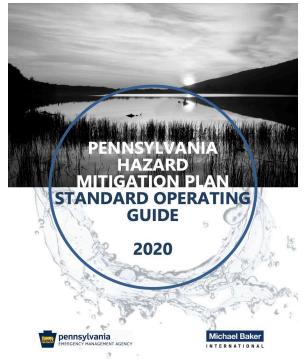
# **Local Mitigation Planning Policy Guide**

FP 206-21-0002

Released April 19, 2022, Effective April 19, 2023

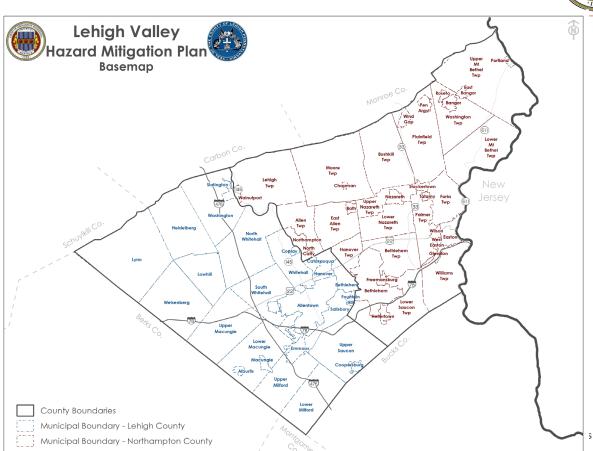
OMB Collection #1660-0062











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# **Profiled Hazards**

#### 13 Natural Hazards and 13 Other Hazards





#### **HUMAN-CAUSED HAZARDS**

- Environmental Hazards / Hazardous Materials Release
- Utility Interruption
- Gas/Liquid Pipelines (NEW)
- Opioid Addiction
- Urban Fire/Explosion (NEW added explosion)
- Transportation Accidents
- **Building Collapse**
- Civil Disturbance (formerly "Mass Gathering")
- Dam Failure
- Levee Failure
- Terrorism
- Cyber-Terrorism (NEW)
- **Nuclear Incidents**

# **Community Lifelines**



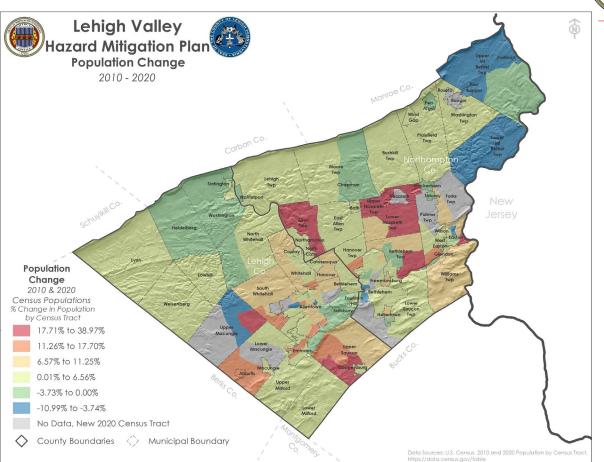




# Population Change 2010-2020

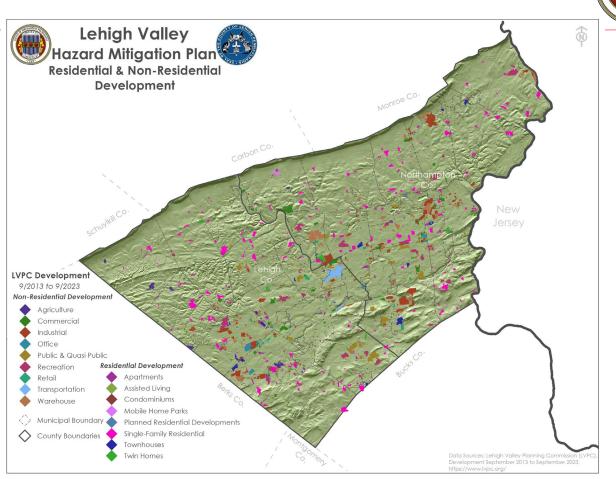
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# Development Since 2013







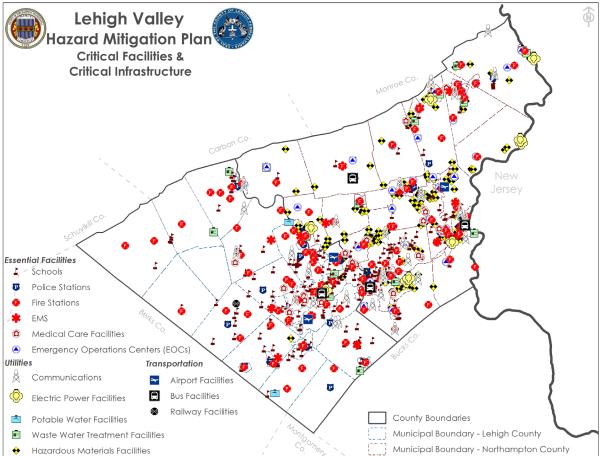
# **Critical Facilities**

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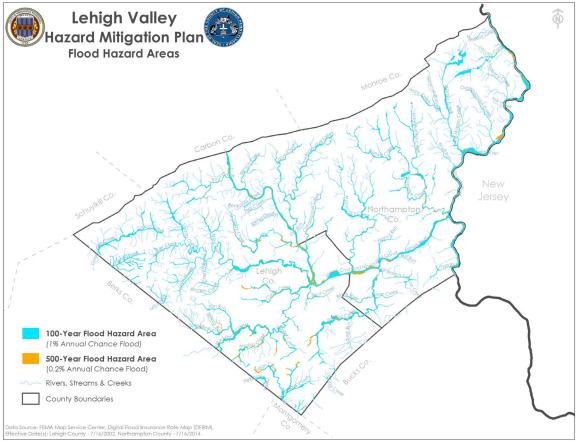






#### Flood Hazard Areas

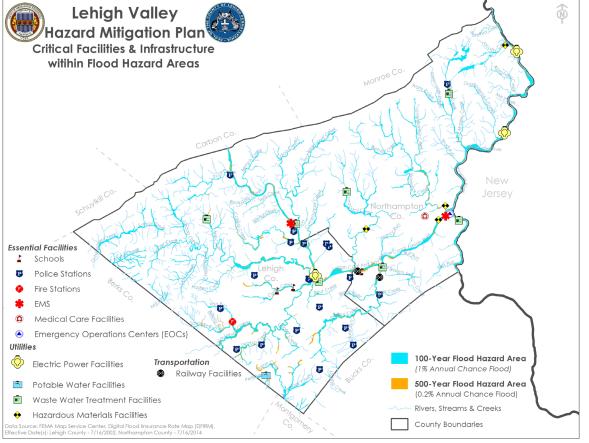






## Critical Facilities At Risk of Flooding

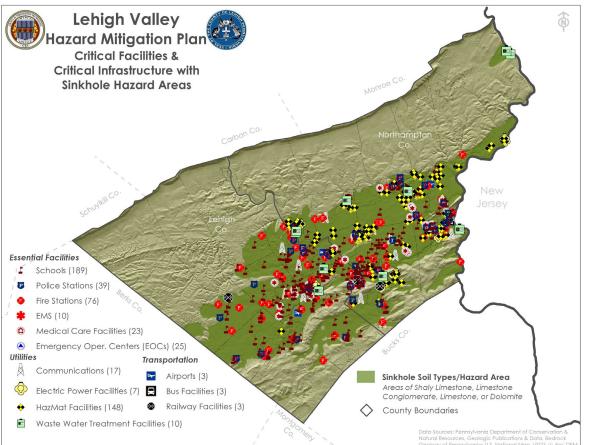






#### Critical Facilities At Risk of Sinkholes



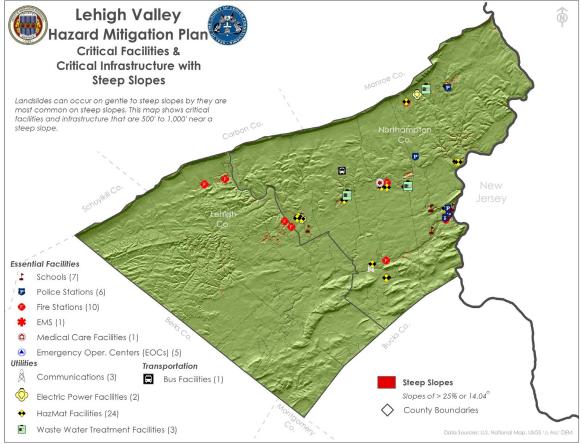




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#### Critical Facilities At Risk of Landslide

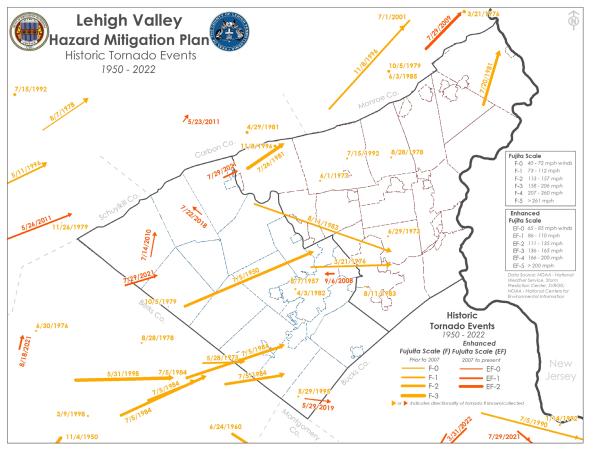






#### **Tornadoes**

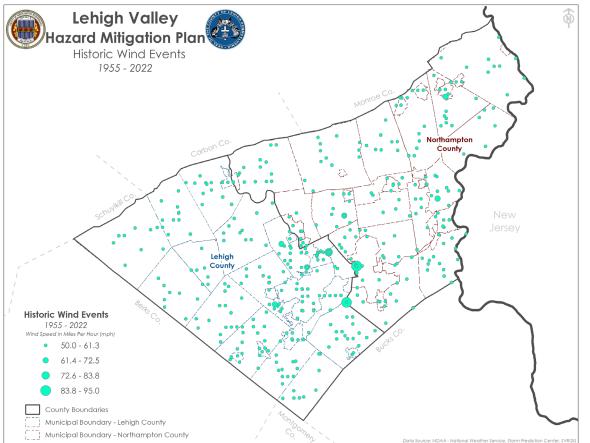






#### Wind Events

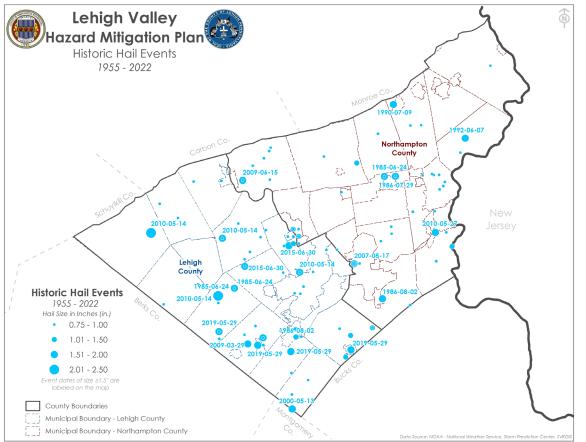






#### Hail Events



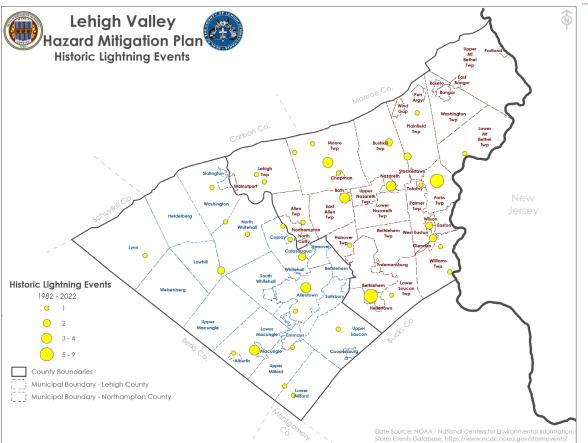


19

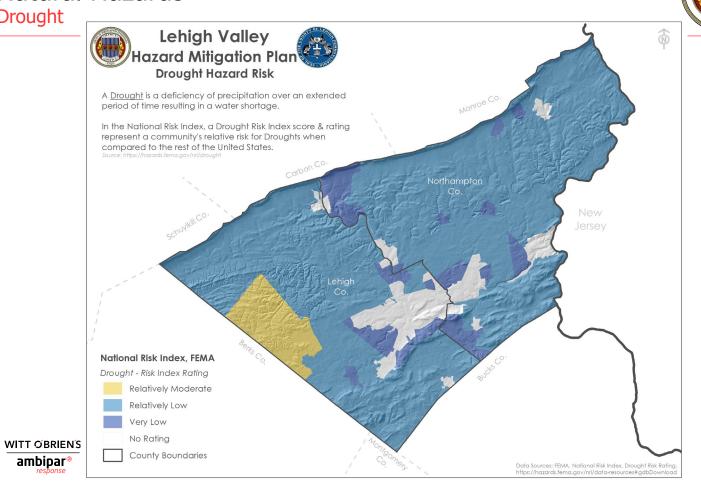
## **Lightning Events**







## Drought

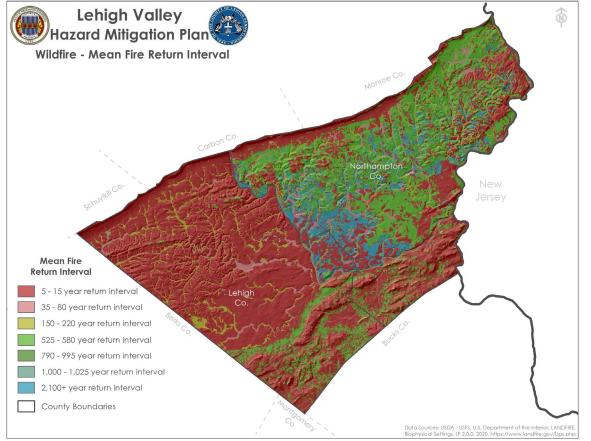




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#### Wildfire – Mean Fire Return Interval





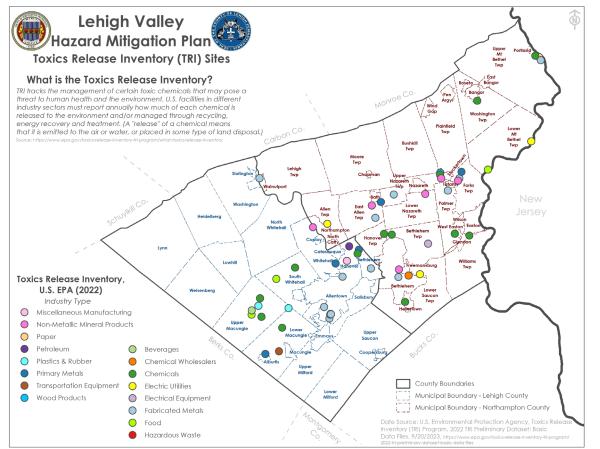


## **Human-Caused Hazards**

## Environmental Hazards / Hazardous Materials Release





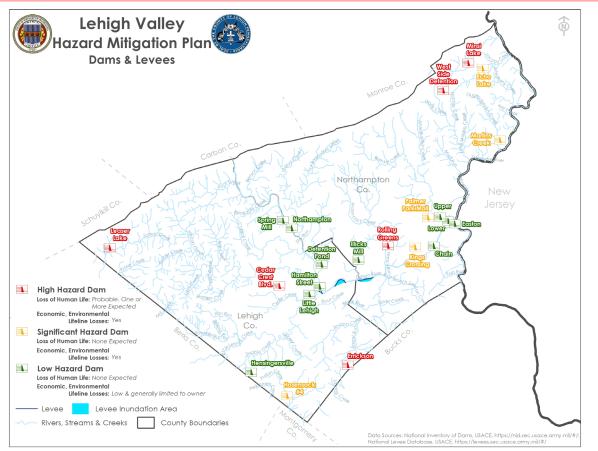


# **Human-Caused Hazards**

Dams and Levees











#### Natural and Human-Caused Hazards Since Last Plan

- Two Droughts
- Two Extreme Heat Events
- One Extreme Cold Event
- 12 Flash Floods
- 13 Hail Events
- Four major Lightning Events
- One Pandemic / Infectious Disease Events







#### **Process Overview**

- The capabilities assessment has three components (as required by PEMA):
  - Inventory of a jurisdiction's existing planning and regulatory tools
  - Analysis of its capacity to use them effectively
  - Review and summary of how the plan will be integrated into other planning mechanisms





- Participating jurisdictions have been given two options for updating their capability assessment:
  - Completing a "Capability Assessment Worksheet"
  - Reviewing their previous Municipal Annex and validating that all the information it contains remains correct
- Many jurisdictions have not yet completed this step, which is required for plan participation!

Scan these QR codes for a copy of your 2022 annex to review

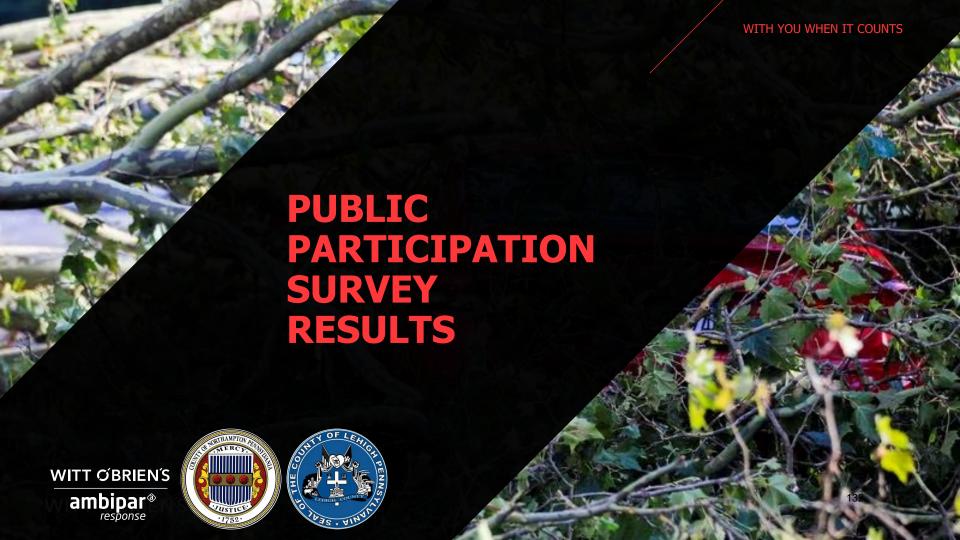




Lehigh County

Northampton County

28







### **Survey Process**

- The Public Participation Survey gathers diverse perspectives on hazards facing the Lehigh Valley
- Open to the public from late July to late September
- Received 379 responses
  - 284 in Northampton County
  - 93 in Lehigh County

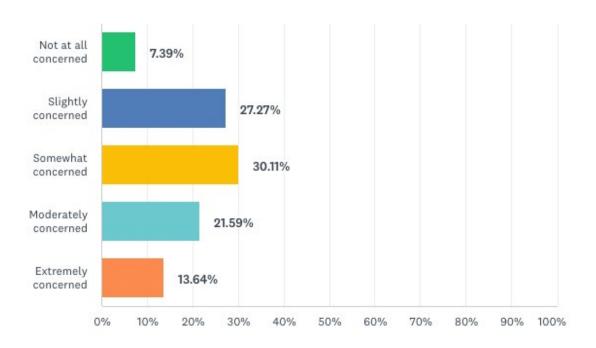


# TO BECKET TO BEC



#### **Community Concerns**

How concerned are you about your community being impacted by a natural disaster?

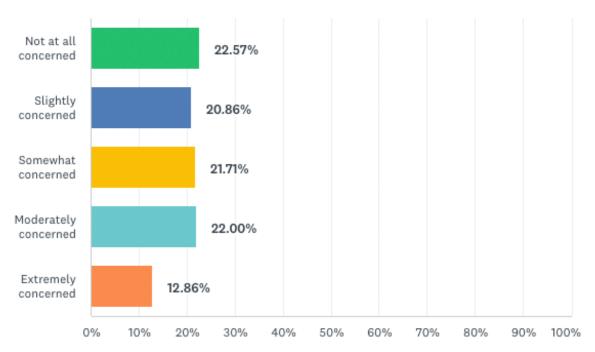








How concerned are you about natural hazard impacts from climate change within your community?

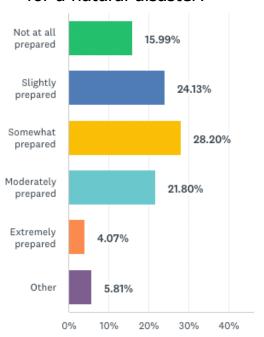




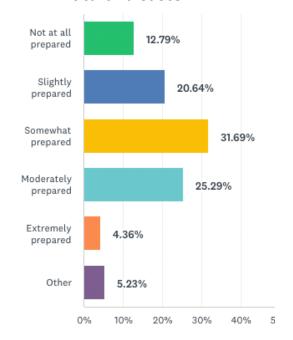




# How prepared do you think your **municipality** is for a natural disaster?



# How prepared do you think your **county** is for a natural disaster?

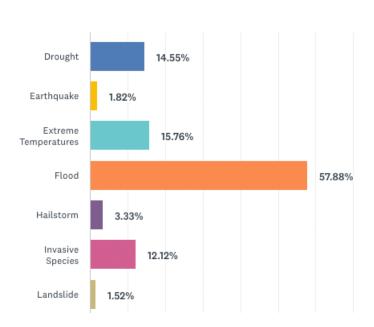


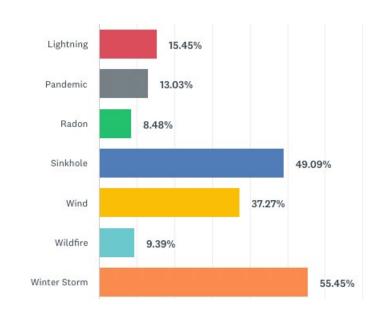






Please select the top 3 natural hazards that you think present the greatest threat to your community.



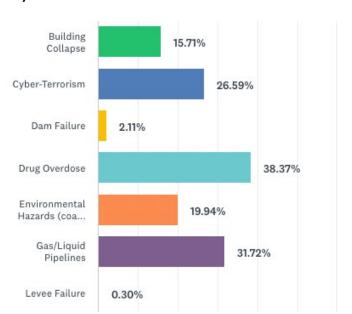


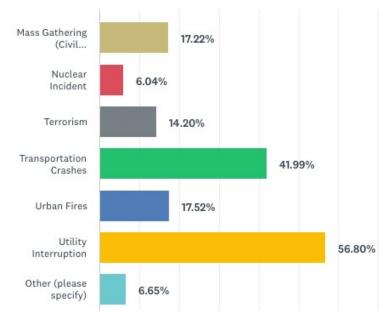






Please select the top 3 human-caused hazards that you think present the greatest threat to your community.











### **Community Experiences and Actions**

- 41.67% of respondents have taken action to make their home, business, or neighborhood more resilient to natural hazards.
- 46.88% of respondents would be interested in participating in residential mitigation activities, if offered.
- 72.82% of respondents indicated they would like to see mitigation programs offered by local government:
  - 52.17% would support tax breaks for residential mitigation
  - 36.96% would support building code improvements
  - 32.97% would support partially government-funded property retrofits

# TISTICE 1755:



#### Write-In Comments

- "Form a citizen advisory committee in each municipality"
- "Availability of sandbags, last large rain flood event I tried to get some. not available in Northampton county."
- "I would like to see more oversight of building development: the impact of cutting down trees and green spaces; impact of more dwellings and business buildings to infrastructure and abilities to sustain services;"
- "Send out packets with info that could save lives and property. "How To:" etc with copies of each document available online. If we are all prepared, emergency responders don't have to save all of us"





#### Write-In Comments

- "More needs to be done around flood mitigation through the 2 counties. Developers are not putting much effort around this when developing new construction."
- "We need more trees to lessen the impacts of climate change and make the air safer to breathe. Plant more trees around schools and municipalities. Increase the amount of trees and green space that warehouses need to provide."
- "Thank you for all you do to protect us."







- The mitigation strategy serves as the long-term blueprint for reducing the potential losses identified in the risk assessment.
- It includes the development of goals and prioritized hazard mitigation actions.
  - Goals: long-term policy statements and global visions that support the mitigation strategy
  - Actions: specific projects or steps to be taken to achieve those goals





#### How does the mitigation strategy get implemented?

- When mitigation funding is available, the strategy serves as a guide for how to use that funding effectively
- Each 5-year plan update includes a review of the status of the actions from the previous plan.
- We may choose to keep the same actions, add additional actions, and/or remove actions that have been completed, de-prioritized, or found to be infeasible.

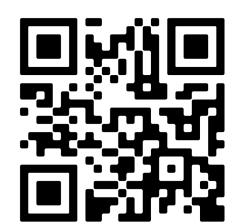
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#### **Review of Previous Actions**

- The 2018 plan identified 1,161 mitigation actions
- These actions were grouped into 28 regional action categories
- Actions are prioritized at the regional action category level
- i.e. If the "Retrofit Structures in Flood-Prone Areas" category is ranked as "High" for the region, then a municipality's "Retrofit City Hall Against Flooding" action would be ranked "High" as well.

Scan these QR codes for a copy of your 2022 annex to review





Lehigh County





# What progress has been made towards actions identified in the previous plan?







- Actions are prioritized at the regional action category level
- Actions are prioritized based on the PEMA Multi-Objective Mitigation Action Plan Prioritization Criteria:
  - Effectiveness (20%)
  - Efficiency (30%)
  - Multi-Hazard Mitigation (20%)
  - Addresses High Risk Hazard (15%)
  - Addresses Critical Communications/Critical Infrastructure (15%)





# What changes would you recommend, if any, to the prioritization factor scores from the previous plan?







Mitigation Actions		Multi-Objective Mitigation Action Prioritization Criteria Low = 0-1.8 Medium = 1.9-2.4 High = 2.5-3					
Regional Action Number	Action Description	Effectiveness	Efficiency	Multi-Hazard Mitigation	Addresses High Risk Hazard	Addresses Critical Communications/ Critical Infrastructure	Total Score/Priority
1	Retrofit structures in flood-prone areas, with repetitive and severe repetitive loss properties as a priority	3	3	1	3	2	2.5
2	Purchase or relocate structures in hazard prone areas	3	3	3	3	2	2.9
3	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	3	3	1	3	3	2.6
4	Conduct and facilitate community and public outreach for residents and businesses to promote and effect hazard risk reduction	3	2	3	3	2	2.6
5	Begin and/or continue the process to adopt higher regulation of floodplains and carbonate bedrock areas	3	3	2	3	2	2.7







Mitigation Actions		Multi-Objective Mitigation Action Prioritization Criteria Low = 0-1.8 Medium = 1.9-2.4 High = 2.5-3						
Regional Action Number	Action Description	Effectiveness	Efficiency	Multi-Hazard Mitigation	Addresses High Risk Hazard	Addresses Critical Communications/ Critical Infrastructure	Total Score/Priority	
6	Determine if CAV or CAC visit is needed and schedule	2	2	1	3	1	1.8	
7	Have designated Floodplain Administrator certified and/or pursue continuing education training	2	3	1	3	1	2.1	
8	Participate in the Community Rating System	3	3	1	3	2	2.5	
9	Obtain/archive elevation certificates for National Flood Insurance Program compliance	1	2	1	3	1	1.6	
10	Continue to support implementation, monitoring, maintenance and updating of the plan	3	2	3	3	2	2.6	







	Mitigation Actions	Multi-Objective Mitigation Action Prioritization Criteria Low = 0-1.8 Medium = 1.9-2.4 High = 2.5-3					
Regional Action Number	Action Description	Effectiveness	Efficiency	Multi-Hazard Mitigation	Addresses High Risk Hazard	Addresses Critical Communications/ Critical Infrastructure	Total Score/Priority
11	Develop/enhance Comprehensive Emergency Management Plans	2	2	3	3	2	2.4
12	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	1	2	3	3	2	2.2
13	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	1	1	3	1	1	1.4
14	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	1	2	3	3	1	2.0
15	General storm drainage/flooding projects	3	2	1	3	1	2.0







	Mitigation Actions	Multi-Objective Mitigation Action Prioritization Criteria Low = 0-1.8 Medium = 1.9-2.4 High = 2.5-3					
Regional Action Number	Action Description	Effectiveness	Efficiency	Multi-Hazard Mitigation	Addresses High Risk Hazard	Addresses Critical Communications/ Critical Infrastructure	Total Score/Priority
16	Specific storm drainage/flooding projects (non-critical facilities)	3	2	1	3	3	2.0
17	Critical facilities - storm drainage/flooding projects or relocation	3	3	1	3	3	2.6
18	Critical facilities - back up power projects	3	3	3	3	3	3.0
19	Critical facilities - other projects	3	3	3	3	3	3.0
20	Emergency notifications/communication/ traffic control	3	2	3	3	3	2.7







	Mitigation Actions	Multi-Objective Mitigation Action Prioritization Criteria Low = 0-1.8 Medium = 1.9-2.4 High = 2.5-3						
Regional Action Number	Action Description	Effectiveness	Efficiency	Multi-Hazard Mitigation	Addresses High Risk Hazard	Addresses Critical Communications/ Critical Infrastructure	Total Score/Priority	
21	Stream or floodplain restoration/ stabilization projects	3	2	1	2	1	1.9	
22	Work to minimize tree/electric line conflicts	3	3	2	3	3	2.8	
23	Geotechnical/sinkhole evaluation (adopt construction standards, remediation)	3	3	3	2	2	2.7	
24	Hazardous materials inventory/emergency planning, education, certification	3	3	1	3	2	2.5	
25	Dam/levee projects	3	2	2	2	3	2.4	







	Mitigation Actions	Multi-Objective Mitigation Action Prioritization Criteria  Low = 0-1.8 Medium = 1.9-2.4 High = 2.5-3					
Regional Action Number	Action Description	Effectiveness	Efficiency	Multi-Hazard Mitigation	Addresses High Risk Hazard	Addresses Critical Communications/ Critical Infrastructure	Total Score/Priority
26	Specific bridge replacement or retrofits	2	2	1	3	3	2.1
27	Wildfire mitigation	3	2	1	2	1	1.9
28	Integrate hazard mitigation into local plans and ordinances	3	3	3	3	1	2.7







## In preparation for our next meeting, consider:

- What actions should be carried forward into the new plan?
- Are there any new mitigation actions your community wishes to propose for the updated plan?

What projects would you like to see implemented in your community over the next 5 years?







#### Morganti, Chelsea

From: Morganti, Chelsea

Sent: Thursday, December 7, 2023 4:19 PM

**To:** tracym@alburtis.org; snemeth@alburtis.org; office@alburtis.org;

emergencymanagement@catasauqua.org; manager@catasauqua.org; efrain.agosto@allentownpa.gov; tpaashaus@coopersburgborough.org; tbenson@coplayborough.org; publicworks@coplayborough.org; kmiller@emmauspa.gov; EMSchief@emmauspa.gov; pw@fhboro.org; mwehr@hanleco.org; spadacciachris@gmail.com; genmcg27@gmail.com;

emc@lowermilford.org; njones@lowermac.com; tammyw@ptd.net;

manager@macungie.pa.us; rholtzman@northwhitehall.org; cgarges@northwhitehall.org;

tcunningham@salisburytownship.org; janems69@aol.com;

petruccit@southwhitehall.com; frantzj@southwhitehall.com; dorneyg@swtpd.com; pchrist@uppermac.org; ddellecker@uppermac.org; kwalbert@uppermilford.net; ecarter@uppermilford.net; pleonard@uppersaucon.org; DC25@ustpd.org;

washtwpemc@ptd.net; fbartholomew@weisenbergfire.com; brian@weisenbergtownship.org; cgrim@whitehalltownship.com;

jrackus@whitehalltownship.com; John Semonich; tanyahook@lehighcounty.org;

philarmstrong@lehighcounty.org; danielbuglio@lehighcounty.org;

lisacozzi@lehighcounty.org; lee.lauback@allentownpa.gov

Cc: tanyahook; Kevin Krotzer; Nicole Burton; Thomas Guth; Norris, Katie; Duffy, Mark W

**Subject:** HMP Worksheet Participation and Next Meeting

Good afternoon Lehigh Valley Planning Team! I am emailing you today for two reasons:

- 1) As you know, each jurisdiction must attend at least 1 meeting and complete <u>at least one worksheet</u> to meet the minimum participation requirements. Here is your opportunity! Please complete the survey at this link that <u>will</u> <u>count</u> as one of your worksheet participation events: <a href="https://www.surveymonkey.com/r/96GYHQY">https://www.surveymonkey.com/r/96GYHQY</a>
- 2) You will shortly receive several meeting invitations. These are our last meetings before we release the draft plan for your review. The first invitation is our mandatory team meeting on the Mitigation Strategy. This meeting is being offered in hybrid format. You may <u>attend in-person or virtually</u>:

What: Lehigh Valley Mitigation Strategy Meeting When: January 18, 2024, from 9am - 10am ET

Where: Cetronia Ambulance Corps, 4300 Broadway, Allentown, PA 18104 or online via the Teams link in the invitation.

3) You will also receive 4 additional invitations for in-person workshop opportunities to review your Mitigation Actions, provide updates, and discuss adding new actions. Please plan to attend at least one. These sessions will be held in both Northampton and Lehigh between January 18<sup>th</sup> and 19<sup>th</sup>. (dates and times were selected based on room availability).

If you have any questions or concerns, please don't hesitate to reach out to me or your County point of contact. Northampton - Thomas Guth, Hazard Mitigation / Disaster Recovery Manager

Office: 610-746-3194 x3228

tguth@ncem-pa.org

Lehigh - Tanya Hook, Director for the Lehigh County Office of Emergency Management

610-782-4604 (office) 484-239-1090 (Cell)

#### tanyahook@lehighcounty.org



#### **Chelsea Morganti**

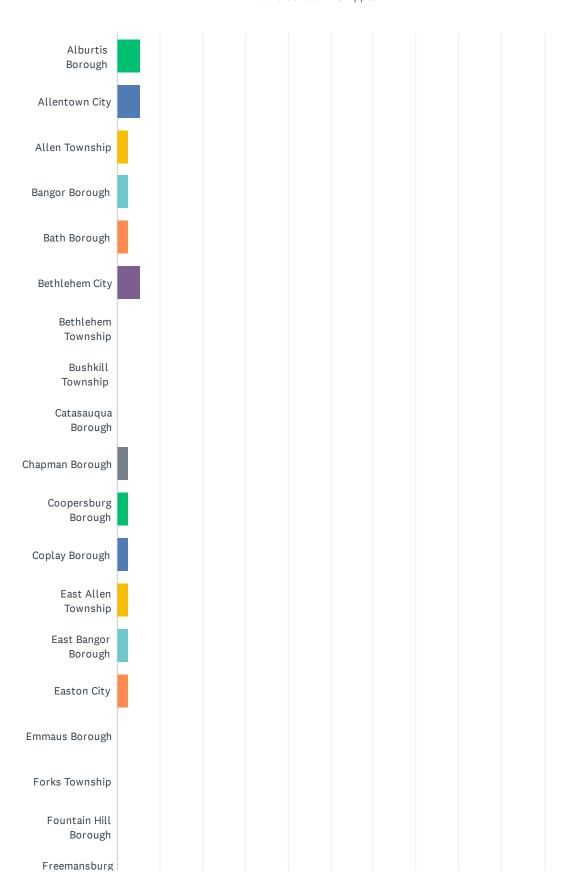
Director of Hazard Mitigation +1 505 582 9514 (mobile)

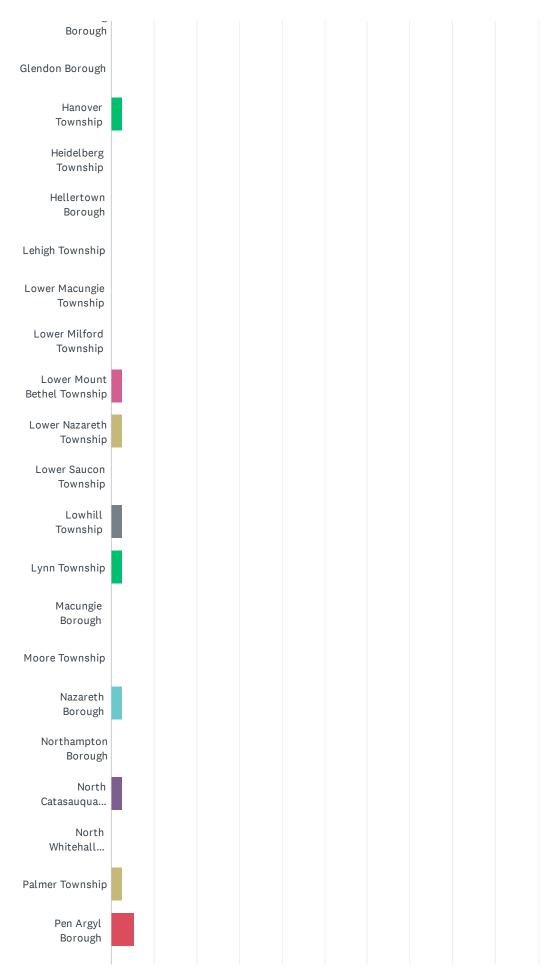
+1 985 781 0804 (24/7 emergency) wittobriens.com | ambipar.com

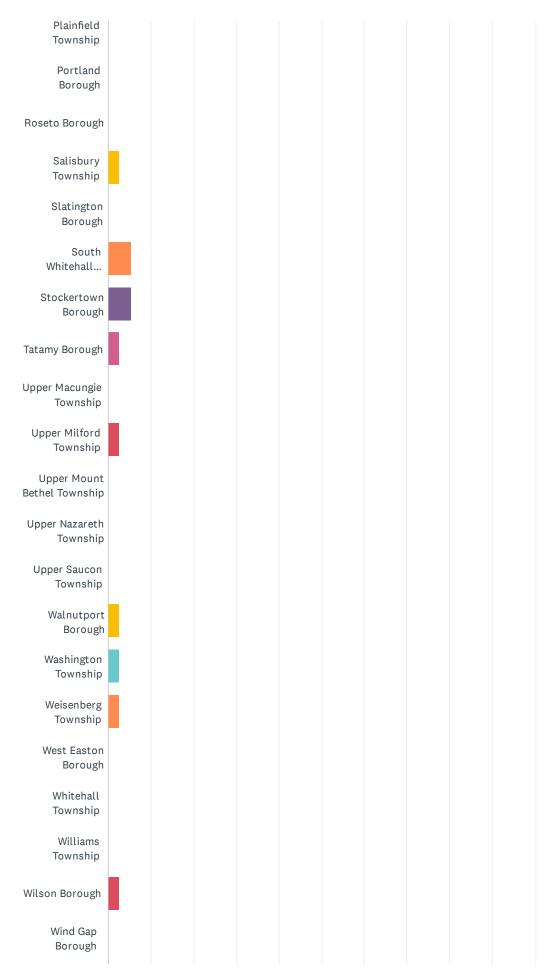
Witt O'Brien's is now part of the Ambipar Response group (NYSE: AMBI)

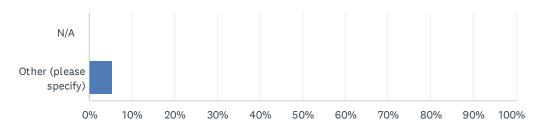
## Q1 Which community are you representing?

Answered: 38 Skipped: 1





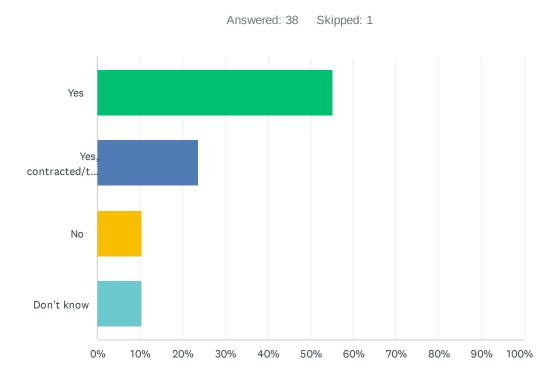




ANSWER CHOICES	RESPONSES	
Alburtis Borough	5.26%	2
Allentown City	5.26%	2
Allen Township	2.63%	1
Bangor Borough	2.63%	1
Bath Borough	2.63%	1
Bethlehem City	5.26%	2
Bethlehem Township	0.00%	0
Bushkill Township	0.00%	0
Catasauqua Borough	0.00%	0
Chapman Borough	2.63%	1
Coopersburg Borough	2.63%	1
Coplay Borough	2.63%	1
East Allen Township	2.63%	1
East Bangor Borough	2.63%	1
Easton City	2.63%	1
Emmaus Borough	0.00%	0
Forks Township	0.00%	0
Fountain Hill Borough	0.00%	0
Freemansburg Borough	0.00%	0
Glendon Borough	0.00%	0
Hanover Township	2.63%	1
Heidelberg Township	0.00%	0
Hellertown Borough	0.00%	0
Lehigh Township	0.00%	0
Lower Macungie Township	0.00%	0
Lower Milford Township	0.00%	0
Lower Mount Bethel Township	2.63%	1
Lower Nazareth Township	2.63%	1
Lower Saucon Township	0.00%	0
Lowhill Township	2.63%	1
Lynn Township	2.63%	1
Macungie Borough	0.00%	0

Moore Township Nazareth Borough	0.00% 2.63%	0
Northampton Borough	0.00%	0
North Catasauqua Borough	2.63%	1
North Whitehall Township	0.00%	0
Palmer Township	2.63%	1
Pen Argyl Borough	5.26%	2
Plainfield Township	0.00%	0
Portland Borough	0.00%	0
Roseto Borough	0.00%	0
Salisbury Township	2.63%	1
Slatington Borough	0.00%	0
South Whitehall Township	5.26%	2
Stockertown Borough	5.26%	2
Tatamy Borough	2.63%	1
Upper Macungie Township	0.00%	0
Upper Milford Township	2.63%	1
Upper Mount Bethel Township	0.00%	0
Upper Nazareth Township	0.00%	0
Upper Saucon Township	0.00%	0
Walnutport Borough	2.63%	1
Washington Township	2.63%	1
Weisenberg Township	2.63%	1
West Easton Borough	0.00%	0
Whitehall Township	0.00%	0
Williams Township	0.00%	0
Wilson Borough	2.63%	1
Wind Gap Borough	0.00%	0
N/A	0.00%	0
Other (please specify)	5.26%	2
TOTAL		38

## Q2 Does your municipality have a floodplain administrator?



ANSWER CHOICES	RESPONSES	
Yes	55.26%	21
Yes, contracted/third party	23.68%	9
No	10.53%	4
Don't know	10.53%	4
TOTAL		38

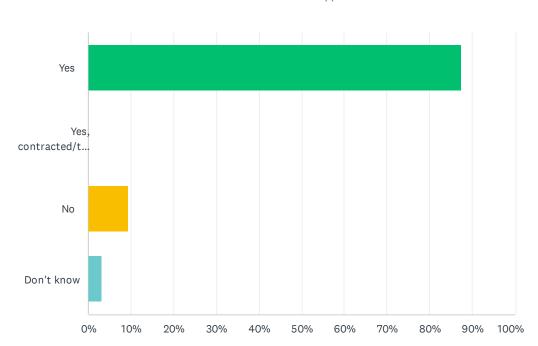
## Q3 Floodplain administrator contact

Answered: 23 Skipped: 16

ANSWER CHOICES	RESPONSES	
Name	95.65%	22
Email	91.30%	21
Phone number	95.65%	22
Company name (if third party)	52.17%	12

## Q4 Does your municipality have a public works director?





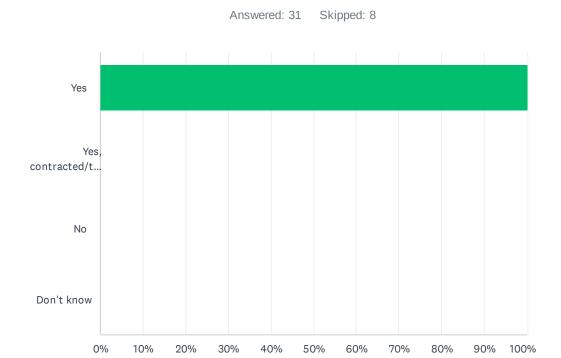
ANSWER CHOICES	RESPONSES	
Yes	87.50%	28
Yes, contracted/third party	0.00%	0
No	9.38%	3
Don't know	3.13%	1
TOTAL		32

## Q5 Public works contact

Answered: 25 Skipped: 14

ANSWER CHOICES	RESPONSES	
Name	100.00%	25
Email	88.00%	22
Phone number	100.00%	25
Company name (if third party)	16.00%	4

## Q6 Does your municipality have an emergency management coordinator?



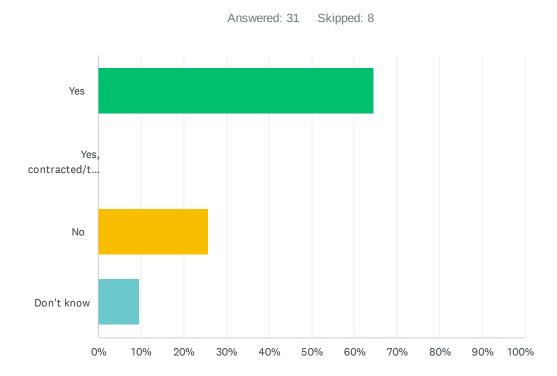
ANSWER CHOICES	RESPONSES	
Yes	100.00%	31
Yes, contracted/third party	0.00%	0
No	0.00%	0
Don't know	0.00%	0
TOTAL		31

## Q7 Emergency management contact

Answered: 28 Skipped: 11

ANSWER CHOICES	RESPONSES	
Name	100.00%	28
Email	89.29%	25
Phone number	96.43%	27
Company name (if third party)	14.29%	4

## Q8 Does your municipality have a planning staff/planning coordinator?



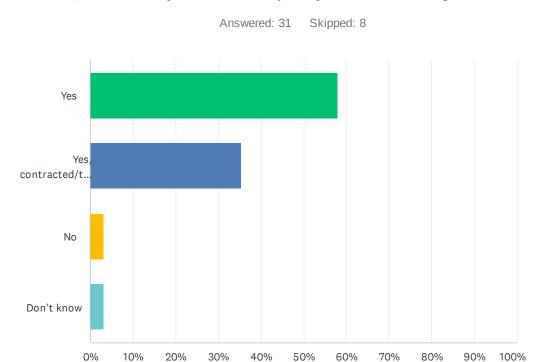
ANSWER CHOICES	RESPONSES	
Yes	64.52%	20
Yes, contracted/third party	0.00%	0
No	25.81%	8
Don't know	9.68%	3
TOTAL		31

## Q9 Planning staff/director contact

Answered: 17 Skipped: 22

ANSWER CHOICES	RESPONSES	
Name	100.00%	17
Email	76.47%	13
Phone number	82.35%	14
Company name (if third party)	11.76%	2

## Q10 Does your municipality have an engineer?



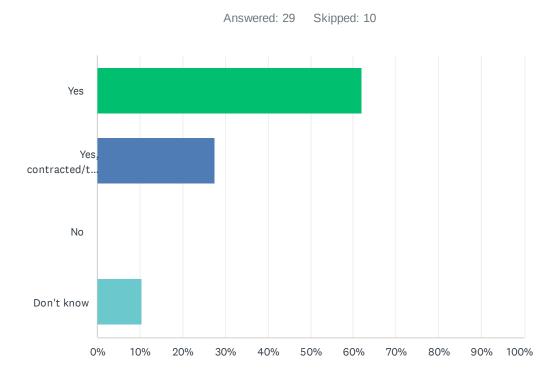
ANSWER CHOICES	RESPONSES	
Yes	58.06%	18
Yes, contracted/third party	35.48%	11
No	3.23%	1
Don't know	3.23%	1
TOTAL		31

## Q11 Engineering contact

Answered: 25 Skipped: 14

ANSWER CHOICES	RESPONSES	
Name	100.00%	25
Email	80.00%	20
Phone number	92.00%	23
Company name (if third party)	64.00%	16

## Q12 Does your municipality have a code official?



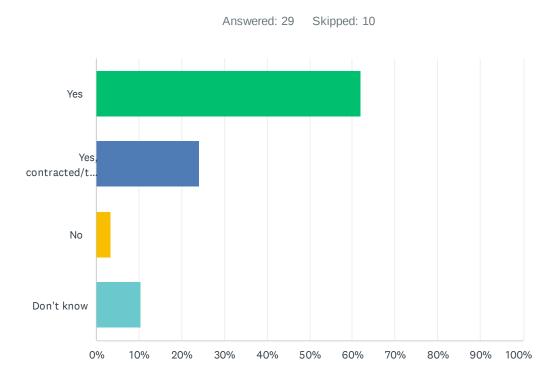
ANSWER CHOICES	RESPONSES	
Yes	62.07%	18
Yes, contracted/third party	27.59%	8
No	0.00%	0
Don't know	10.34%	3
TOTAL		29

## Q13 Municipal code contact

Answered: 24 Skipped: 15

ANSWER CHOICES	RESPONSES	
Name	95.83%	23
Email	75.00%	18
Phone number	87.50%	21
Company name (if third party)	50.00%	12

## Q14 Does your municipality have a zoning officer?



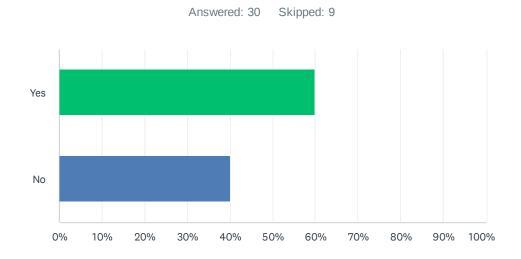
ANSWER CHOICES	RESPONSES	
Yes	62.07%	18
Yes, contracted/third party	24.14%	7
No	3.45%	1
Don't know	10.34%	3
TOTAL		29

#### Q15 Zoning contact

Answered: 23 Skipped: 16

ANCINED CHOICEC	DECDONCEC	
ANSWER CHOICES	RESPONSES	
Name	100.00%	23
Email	73.91%	17
Phone number	86.96%	20
Company name (if third party)	43.48%	10

#### Q16 Does your municipality have a municipal manager?



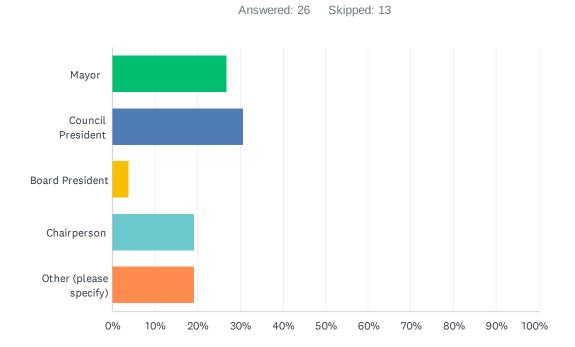
ANSWER CHOICES	RESPONSES	
Yes	60.00%	18
No	40.00%	12
TOTAL		30

#### Q17 Municipal manager contact

Answered: 15 Skipped: 24

ANSWER CHOICES	RESPONSES	
Name	100.00%	15
Email	100.00%	15
Phone number	93.33%	14

#### Q18 Which of the following best describes your head municipal official?



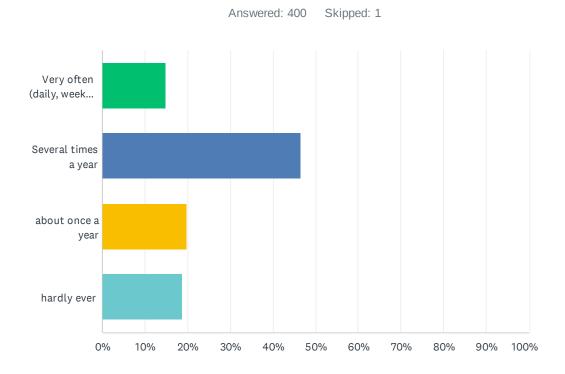
ANSWER CHOICES	RESPONSES	
Mayor	26.92%	7
Council President	30.77%	8
Board President	3.85%	1
Chairperson	19.23%	5
Other (please specify)	19.23%	5
TOTAL		26

#### Q19 Head municipal contact

Answered: 26 Skipped: 13

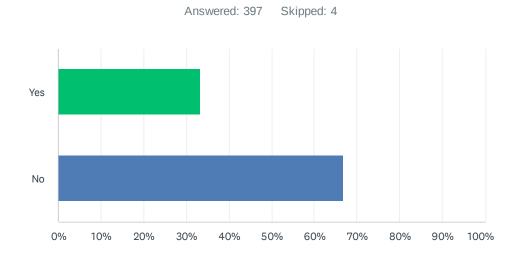
ANSWER CHOICES	RESPONSES	
Name	100.00%	26
Email	88.46%	23
Phone	88.46%	23

#### Q1 How often do you think or worry about natural disasters?



ANSWER CHOICES	RESPONSES	
Very often (daily, weekly, or monthly)	15.00%	60
Several times a year	46.50%	186
about once a year	19.75%	79
hardly ever	18.75%	75
TOTAL	4	100

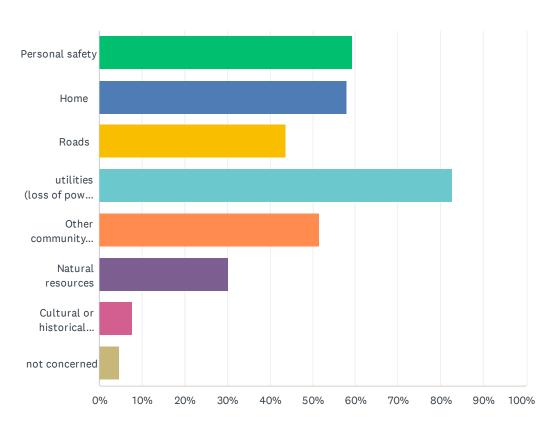
#### Q2 If an emergency evacuation notice was issued for your area, would you know where to go?



ANSWER CHOICES	RESPONSES	
Yes	33.25%	132
No	66.75%	265
TOTAL		397

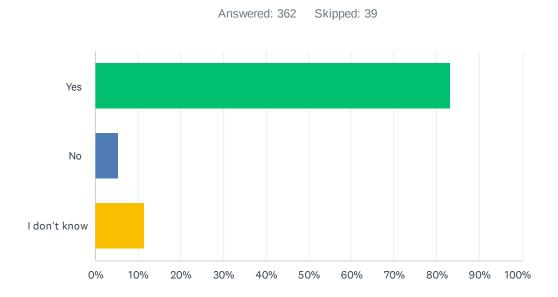
#### Q3 When considering extreme temperatures, are you concerned about damages or impacts to your:





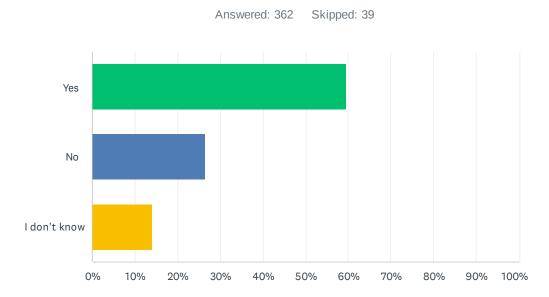
ANSWER CHOICES	RESPONSES	
Personal safety	59.25%	237
Home	58.00%	232
Roads	43.75%	175
utilities (loss of power, water, cable/internet, etc.)	82.75%	331
Other community services (hospital functions, police, EMS, etc.)	51.50%	206
Natural resources	30.25%	121
Cultural or historical locations	7.75%	31
not concerned	4.75%	19
Total Respondents: 400		

Q4 Heat islands are urbanized areas that experience higher temperatures than outlying areas. Structures such as buildings, roads, and other infrastructure absorb and re-emit the sun's heat more than natural landscapes such as forests and water bodies. Utilizing native vegetation, instead of foreign grasses, can also decrease water utilization and support pollinator populations. Would you support the integration of more native vegetation in your area to decrease heat island impacts?



ANSWER CHOICES	RESPONSES	
Yes	83.15%	01
No	5.25%	19
I don't know	11.60%	42
TOTAL	36	62

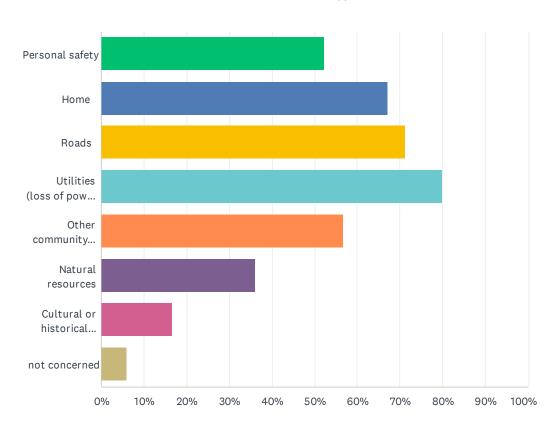
# Q5 Would you be interested in information on native vegetation, rain gardens, or other methods you could implement at your home to decrease heat island impacts?



ANSWER CHOICES	RESPONSES	
Yes	59.39%	215
No	26.52%	96
I don't know	14.09%	51
TOTAL		362

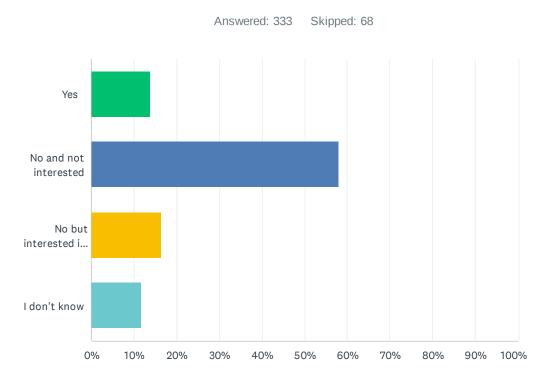
# Q6 When considering floods, are you concerned about damage or impacts to your:





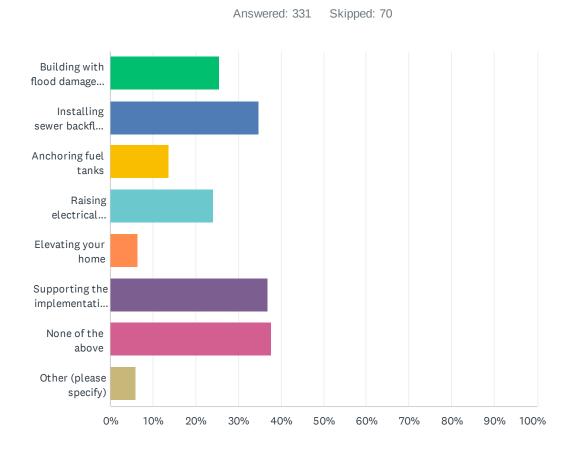
ANSWER CHOICES	RESPONSES	
Personal safety	52.22%	200
Home	67.10%	257
Roads	71.28%	273
Utilities (loss of power, water, cable/internet, etc.)	79.90%	306
Other community services (hospital functions, police, EMS, etc.)	56.66%	217
Natural resources	36.03%	138
Cultural or historical locations	16.71%	64
not concerned	6.01%	23
Total Respondents: 383		

Q7 Flood insurance can be purchased by any homeowner, even if it is not required by your mortgage lender. Flood insurance rates for homeowners outside of the Special Flood Hazard area are typically cheaper than homes in the floodplain. Do you have flood insurance?



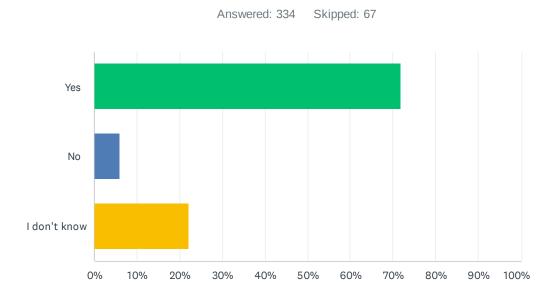
ANSWER CHOICES	RESPONSES	
Yes	13.81%	46
No and not interested	57.96%	193
No but interested in it	16.52%	55
I don't know	11.71%	39
TOTAL		333

Q8 If a program was offered, would you be interested in participating in any of the following flood mitigation activities? Activities could be funded through low interest loans or participation in a grant program:



ANSWER CHOICES	RESPON	ISES
Building with flood damage resistant materials	25.68%	85
Installing sewer backflow valves	34.74%	115
Anchoring fuel tanks	13.60%	45
Raising electrical system components	24.17%	80
Elevating your home	6.34%	21
Supporting the implementation of higher building code standards, particularly where they could lead to flood insurance discounts	36.86%	122
None of the above	37.76%	125
Other (please specify)	6.04%	20
Total Respondents: 331		

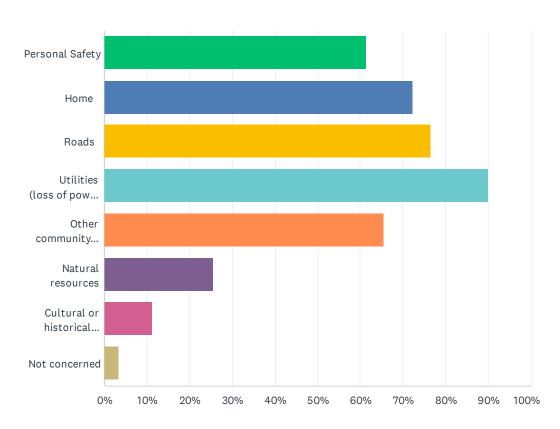
Q9 "Daylighting" is when a buried watercourse, typically flowing through culverts under concrete or roadways, is opened and restored to more natural conditions. The purpose of returning to riparian environment of a stream, wash, or river to a more natural state is to reduce runoff, create habitat for species, and/or improve an area's aesthetics. Is this a project you would support in your community?



ANSWER CHOICES	RESPONSES	
Yes	71.86% 24	10
No	5.99%	20
I don't know	22.16%	74
TOTAL	33	34

#### Q10 When considering winter storms, are you concerned about damage or impacts to your:

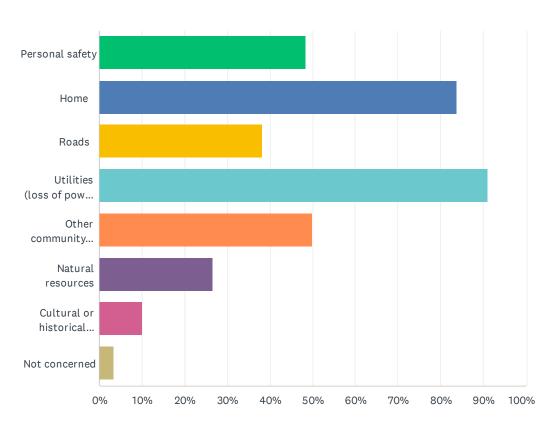




ANSWER CHOICES	RESPONSES	
Personal Safety	61.34%	219
Home	72.27%	258
Roads	76.47%	273
Utilities (loss of power, water, cable/internet, etc)	89.92%	321
Other community services (hospital functions, police, EMS, etc.)	65.55%	234
Natural resources	25.49%	91
Cultural or historical locations	11.20%	40
Not concerned	3.36%	12
Total Respondents: 357		

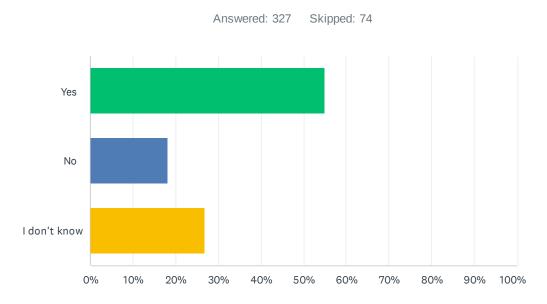
#### Q11 When considering wind, are you concerned about damage or impacts to your:





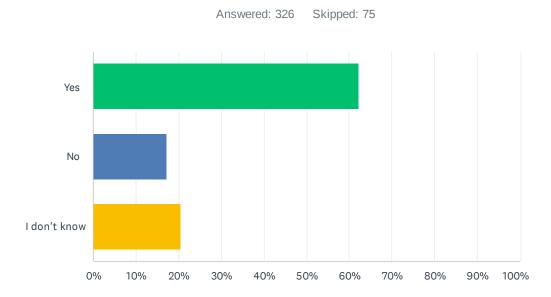
ANSWER CHOICES	RESPONSES	
Personal safety	48.46%	173
Home	83.75%	299
Roads	38.10%	136
Utilities (loss of power, water, cable/internet, etc)	91.04%	325
Other community services (hospital functions, police, EMS, etc)	49.86%	178
Natural resources	26.61%	95
Cultural or historical locations	10.08%	36
Not concerned	3.36%	12
Total Respondents: 357		

Q12 A hurricane strap is a connector, usually made of galvanized or stainless steel, that is used to strengthen wood framed roofs and homes. They create a load path between the roof and the foundation, allowing the force of strong winds to be shared throughout the structure rather than only the roof during weather events like tropical storms, tornadoes, high wind, and winter storms. Each strap costs less than \$2.00 and would need to be installed according to code at regular intervals through the home's frame. If property tax breaks were offered, would you be interested in this type of home retrofit?



ANSWER CHOICES	RESPONSES	
Yes	55.05%	180
No	18.04%	59
I don't know	26.91%	88
TOTAL		327

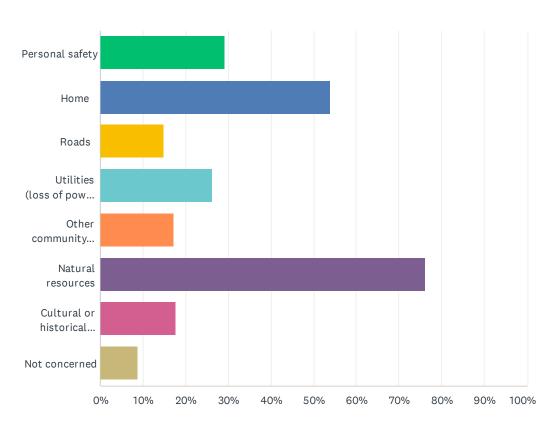
# Q13 Would you support the implementation of higher local building codes to require hurricanes straps in new construction or permitted retrofits?



ANSWER CHOICES	RESPONSES	
Yes	62.27%	203
No	17.18%	56
I don't know	20.55%	67
TOTAL		326

#### Q14 When considering invasive species, are you concerned about damage or impacts to your:

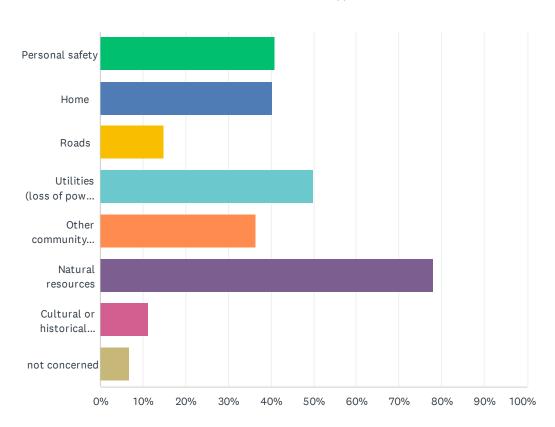




ANSWER CHOICES	RESPONSES	
Personal safety	29.25%	98
Home	54.03%	181
Roads	14.93%	50
Utilities (loss of power, water, cable/internet, etc)	26.27%	88
Other community services (hospital functions, police, EMS, etc)	17.31%	58
Natural resources	76.12%	255
Cultural or historical locations	17.61%	59
Not concerned	8.66%	29
Total Respondents: 335		

#### Q15 When considering drought in your community, are you concerned about damage or impacts to your:

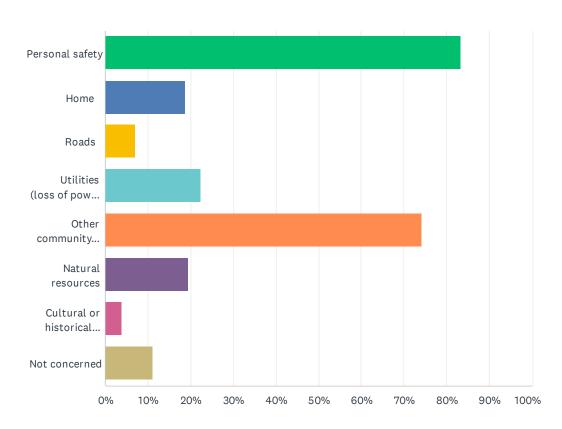




ANSWER CHOICES	RESPONSES	
Personal safety	40.95%	138
Home	40.36%	136
Roads	14.84%	50
Utilities (loss of power, water, cable/internet, etc)	49.85%	168
Other community services (hospital functions, police, EMS, etc)	36.50%	123
Natural resources	78.04%	263
Cultural or historical locations	11.28%	38
not concerned	6.82%	23
Total Respondents: 337		

# Q16 When considering pandemics, are you concerned about damage or impacts to your:

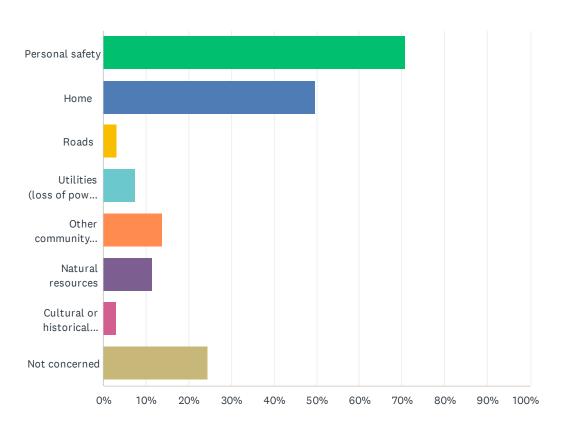




ANSWER CHOICES	RESPONSES	
Personal safety	83.33%	280
Home	18.75%	63
Roads	7.14%	24
Utilities (loss of power, water, cable/internet, etc)	22.32%	75
Other community services (hospital functions, police, EMS, etc)	74.11%	249
Natural resources	19.35%	65
Cultural or historical locations	3.87%	13
Not concerned	11.01%	37
Total Respondents: 336		

#### Q17 When considering radon, are you concerned about damage or impacts to your:

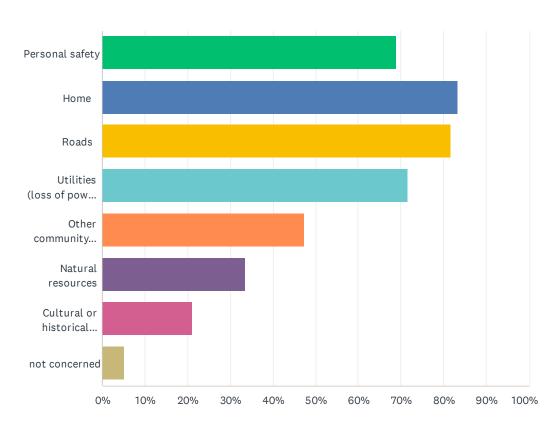




ANSWER CHOICES	RESPONSES	
Personal safety	70.71%	239
Home	49.70%	168
Roads	3.25%	11
Utilities (loss of power, water, cable/internet, etc)	7.40%	25
Other community services (hospital functions, police, EMS, etc)	13.91%	47
Natural resources	11.54%	39
Cultural or historical locations	2.96%	10
Not concerned	24.56%	83
Total Respondents: 338		

#### Q18 When considering sinkholes, are you concerned about damage or impacts to your:

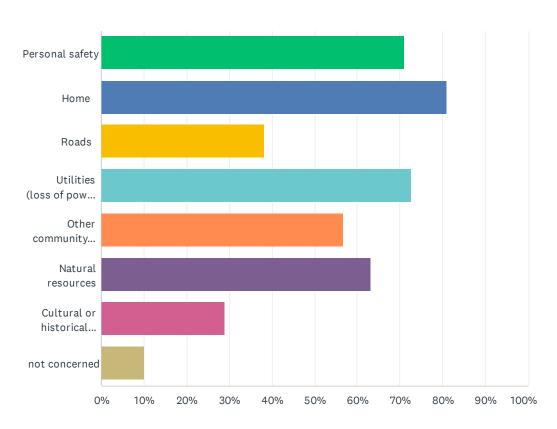




ANSWER CHOICES	RESPONSES	
Personal safety	68.93%	233
Home	83.43%	282
Roads	81.66%	276
Utilities (loss of power, water, cable/internet, etc.)	71.60%	242
Other community services (hospital functions, police, EMS, etc.)	47.34%	160
Natural resources	33.43%	113
Cultural or historical locations	21.01%	71
not concerned	5.03%	17
Total Respondents: 338		

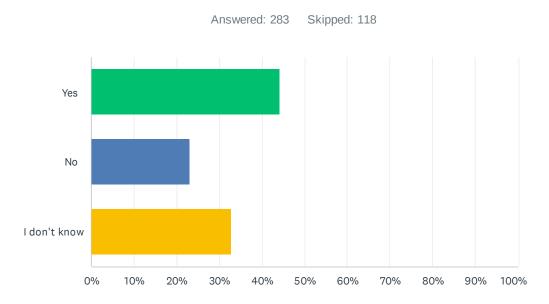
# Q19 When considering wildfire, are you concerned about damage or impacts to your





ANSWER CHOICES	RESPONSES	
Personal safety	71.01%	240
Home	81.07%	274
Roads	38.17%	129
Utilities (loss of power, water, cable/internet, etc.)	72.78%	246
Other community services (hospital functions, police, EMS, etc.)	56.80%	192
Natural resources	63.02%	213
Cultural or historical locations	28.99%	98
not concerned	10.06%	34
Total Respondents: 338		

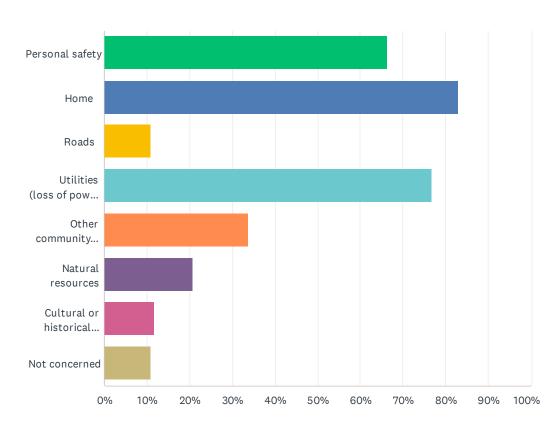
Q20 "Defensible Space" is a buffer between a building and the surrounding wildland area. It is designed to reduce the likelihood of direct contact between a wildfire and a home, or a structure fire and surrounding vegetation. Would you be interested in participating in a residential defensible space program?



ANSWER CHOICES	RESPONSES	
Yes	44.17%	125
No	22.97%	65
I don't know	32.86%	93
TOTAL		283

#### Q21 When considering lightning, are you concerned about damage or impacts to your:

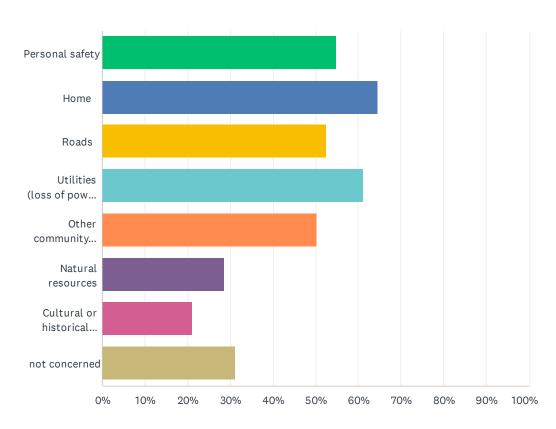




ANSWER CHOICES	RESPONSES	
Personal safety	66.35%	209
Home	82.86%	261
Roads	10.79%	34
Utilities (loss of power, water, cable/internet, etc)	76.83%	242
Other community services (hospital functions, police, EMS, etc)	33.65%	106
Natural resources	20.63%	65
Cultural or historical locations	11.75%	37
Not concerned	10.79%	34
Total Respondents: 315		

#### Q22 When considering earthquakes, are you concerned about damage or impacts to your:

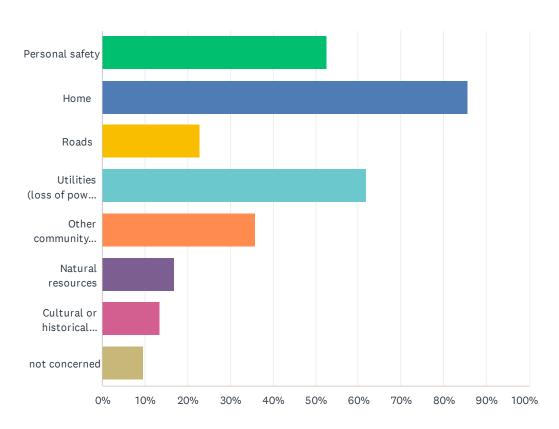




ANSWER CHOICES	RESPONSES	
Personal safety	54.78%	172
Home	64.65%	203
Roads	52.55%	165
Utilities (loss of power, water, cable/internet, etc.)	61.15%	192
Other community services (hospital functions, police, EMS, etc.)	50.32%	158
Natural resources	28.66%	90
Cultural or historical locations	21.02%	66
not concerned	31.21%	98
Total Respondents: 314		

#### Q23 When considering hailstorms, are you concerned about damage or impacts to your:

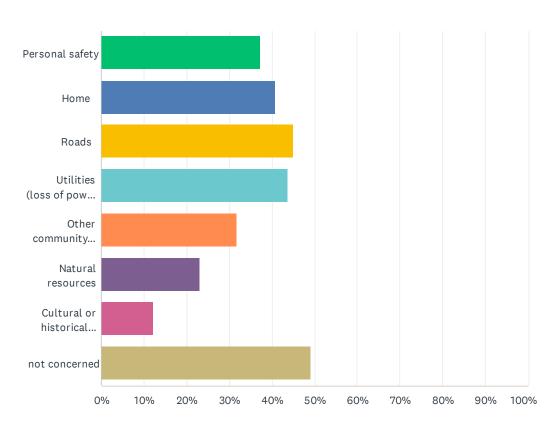




ANSWER CHOICES	RESPONSES	
Personal safety	52.70%	166
Home	85.71%	270
Roads	22.86%	72
Utilities (loss of power, water, cable/internet, etc)	61.90%	195
Other community services (hospital functions, police, EMS, etc)	35.87%	113
Natural resources	16.83%	53
Cultural or historical locations	13.33%	42
not concerned	9.52%	30
Total Respondents: 315		

#### Q24 When considering landslides, are you concerned about damage or impacts to your:

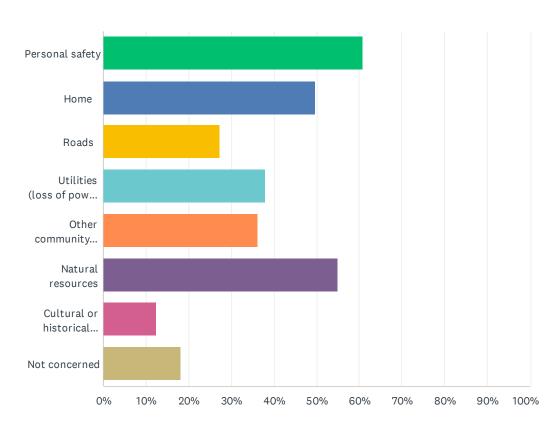




ANSWER CHOICES	RESPONSES	
Personal safety	37.26%	117
Home	40.76%	128
Roads	44.90%	141
Utilities (loss of power, water, cable/internet, etc.)	43.63%	137
Other community services (hospital functions, police, EMS, etc.)	31.85%	100
Natural resources	22.93%	72
Cultural or historical locations	12.10%	38
not concerned	49.04%	154
Total Respondents: 314		

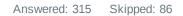
# Q25 When considering environmental hazards (mining, hazardous materials, conventional and unconventional wells, etc) are you concerned about damage or impacts to your:

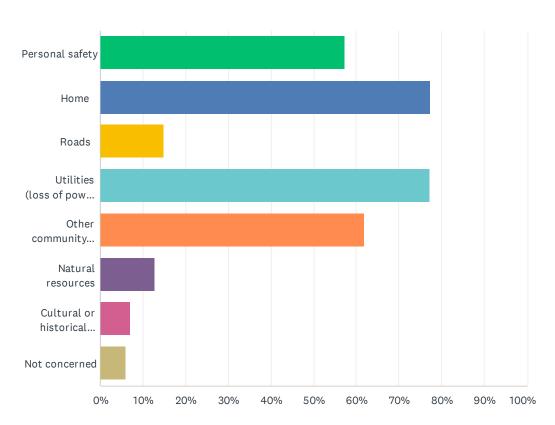




ANSWER CHOICES	RESPONSES	
Personal safety	60.83%	191
Home	49.68%	156
Roads	27.39%	86
Utilities (loss of power, water, cable/internet, etc)	37.90%	119
Other community services (hospital functions, police, EMS, etc)	36.31%	114
Natural resources	55.10%	173
Cultural or historical locations	12.42%	39
Not concerned	18.15%	57
Total Respondents: 314		

#### Q26 When considering utility interruptions, are you concerned about damage or impacts to your:

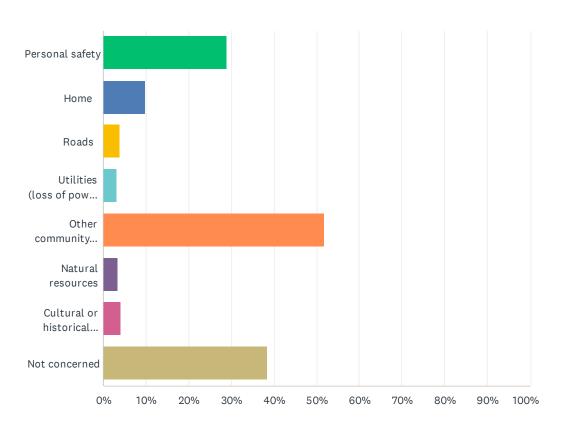




ANSWER CHOICES	RESPONSES	
Personal safety	57.46%	181
Home	77.46%	244
Roads	14.92%	47
Utilities (loss of power, water, cable/internet, etc)	77.14%	243
Other community services (hospital functions, police, EMS, etc)	61.90%	195
Natural resources	12.70%	40
Cultural or historical locations	6.98%	22
Not concerned	6.03%	19
Total Respondents: 315		

#### Q27 When considering drug overdoses, are you concerned about damage or impacts to your:

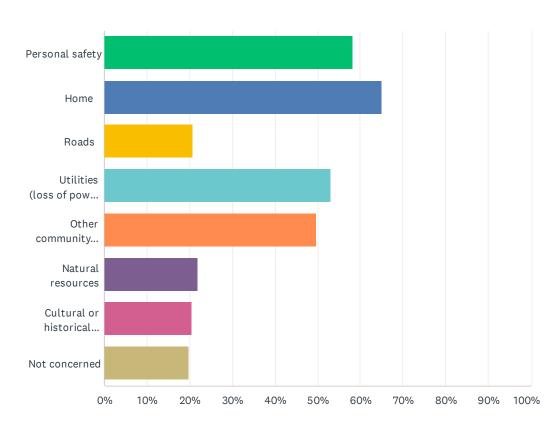




ANSWER CHOICES	RESPONSES	
Personal safety	29.07%	91
Home	9.90%	31
Roads	3.83%	12
Utilities (loss of power, water, cable/internet, etc)	3.19%	10
Other community services (hospital functions, police, EMS, etc)	51.76%	162
Natural resources	3.51%	11
Cultural or historical locations	4.15%	13
Not concerned	38.34%	120
Total Respondents: 313		

# Q28 When considering urban fires, are you concerned about damage or impacts to your:

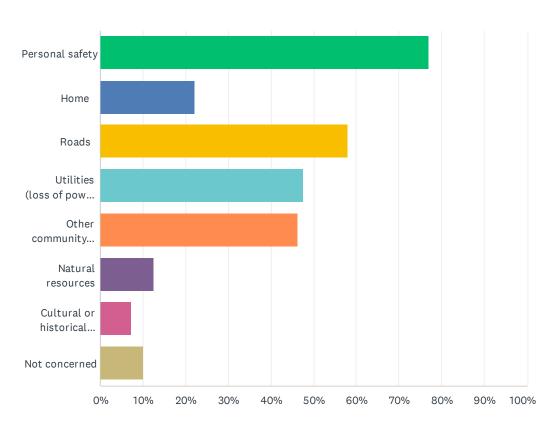




ANSWER CHOICES	RESPONSES	
Personal safety	58.28%	183
Home	64.97%	204
Roads	20.70%	65
Utilities (loss of power, water, cable/internet, etc)	53.18%	167
Other community services (hospital functions, police, EMS, etc)	49.68%	156
Natural resources	21.97%	69
Cultural or historical locations	20.38%	64
Not concerned	19.75%	62
Total Respondents: 314		

#### Q29 When considering transportation crashes, are you concerned about damage or impacts to your:

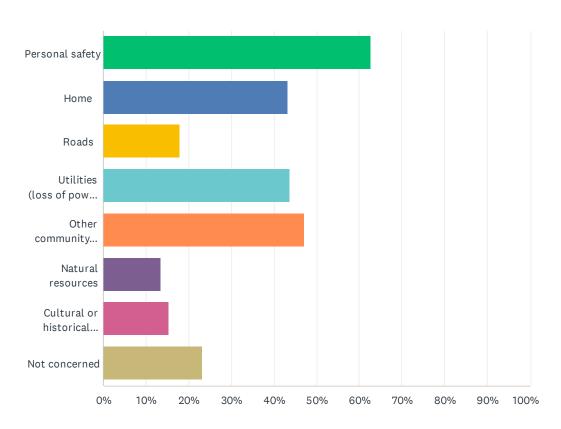




ANSWER CHOICES	RESPONSES	
Personal safety	76.90%	243
Home	22.15%	70
Roads	57.91%	183
Utilities (loss of power, water, cable/internet, etc)	47.47%	150
Other community services (hospital functions, police, EMS, etc)	46.20%	146
Natural resources	12.66%	40
Cultural or historical locations	7.28%	23
Not concerned	10.13%	32
Total Respondents: 316		

# Q30 When considering building collapse, are you concerned about damage or impacts to your:

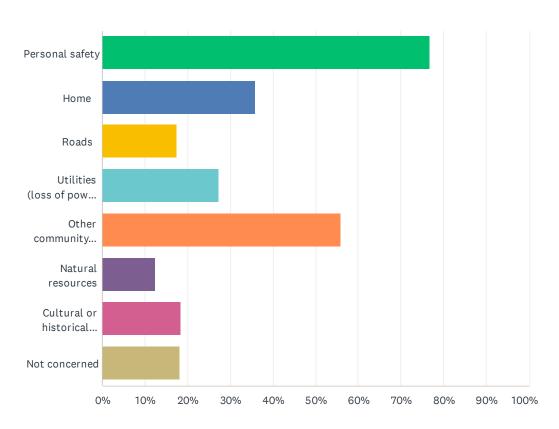




ANSWER CHOICES	RESPONSES	
Personal safety	62.74%	197
Home	43.31%	136
Roads	17.83%	56
Utilities (loss of power, water, cable/internet, etc)	43.63%	137
Other community services (hospital functions, police, EMS, etc)	47.13%	148
Natural resources	13.38%	42
Cultural or historical locations	15.29%	48
Not concerned	23.25%	73
Total Respondents: 314		

#### Q31 When considering mass gatherings (civil disturbances), are you concerned about damage or impacts to your:

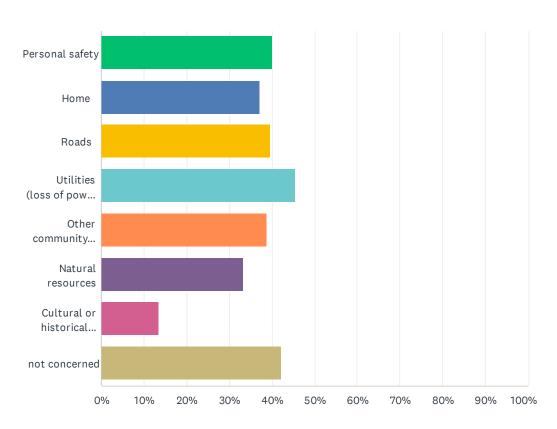




ANSWER CHOICES	RESPONSES	
Personal safety	76.83%	242
Home	35.87%	113
Roads	17.46%	55
Utilities (loss of power, water, cable/internet, etc)	27.30%	86
Other community services (hospital functions, police, EMS, etc)	55.87%	176
Natural resources	12.38%	39
Cultural or historical locations	18.41%	58
Not concerned	18.10%	57
Total Respondents: 315		

# Q32 When considering dam and levee failure, are you concerned about damage or impacts to your:

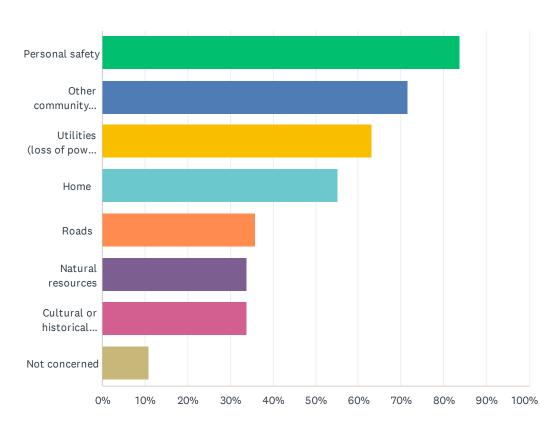




ANSWER CHOICES	RESPONSES	
Personal safety	40.00%	126
Home	37.14%	117
Roads	39.68%	125
Utilities (loss of power, water, cable/internet, etc.)	45.40%	143
Other community services (hospital functions, police, EMS, etc.)	38.73%	122
Natural resources	33.33%	105
Cultural or historical locations	13.33%	42
not concerned	42.22%	133
Total Respondents: 315		

# Q33 When considering terrorism, are you concerned about damage or impacts to your:

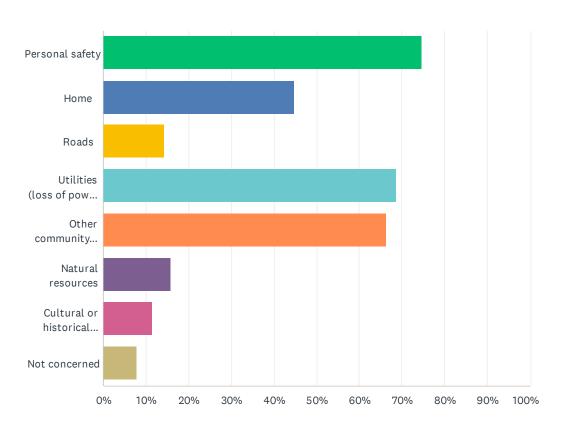




ANSWER CHOICES	RESPONSES	
Personal safety	83.81%	264
Other community services (hospital functions, police, EMS, etc)	71.75%	226
Utilities (loss of power, water, cable/internet, etc)	63.17%	199
Home	55.24%	174
Roads	35.87%	113
Natural resources	33.97%	107
Cultural or historical locations	33.97%	107
Not concerned	10.79%	34
Total Respondents: 315		

# Q34 When considering cyber-terrorism, are you concerned about damage or impacts to your:

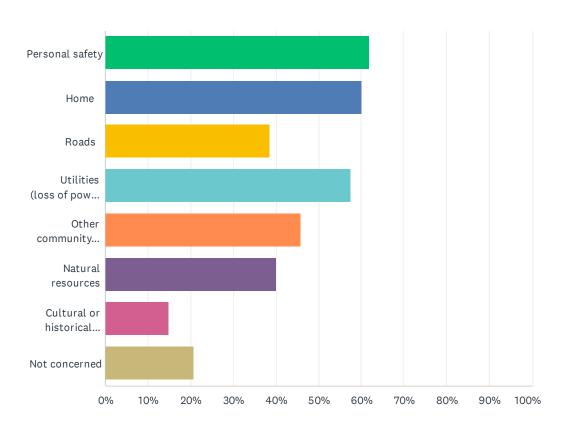




ANSWER CHOICES	RESPONSES	
Personal safety	74.60%	235
Home	44.76%	141
Roads	14.29%	45
Utilities (loss of power, water, cable/internet, etc)	68.57%	216
Other community services (hospital functions, police, EMS, etc)	66.35%	209
Natural resources	15.87%	50
Cultural or historical locations	11.43%	36
Not concerned	7.94%	25
Total Respondents: 315		

# Q35 When considering gas/liquid pipelines, are you concerned about damage or impacts to your:

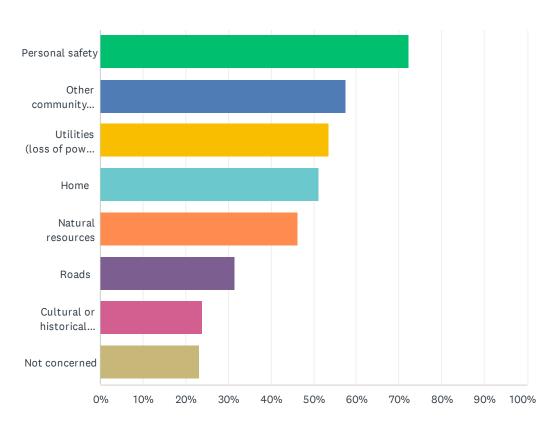




ANSWER CHOICES	RESPONSES	
Personal safety	61.78%	194
Home	60.19%	189
Roads	38.54%	121
Utilities (loss of power, water, cable/internet, etc)	57.64%	181
Other community services (hospital functions, police, EMS, etc)	45.86%	144
Natural resources	40.13%	126
Cultural or historical locations	14.97%	47
Not concerned	20.70%	65
Total Respondents: 314		

# Q36 When considering nuclear incidents, are you concerned about damage or impacts to your:

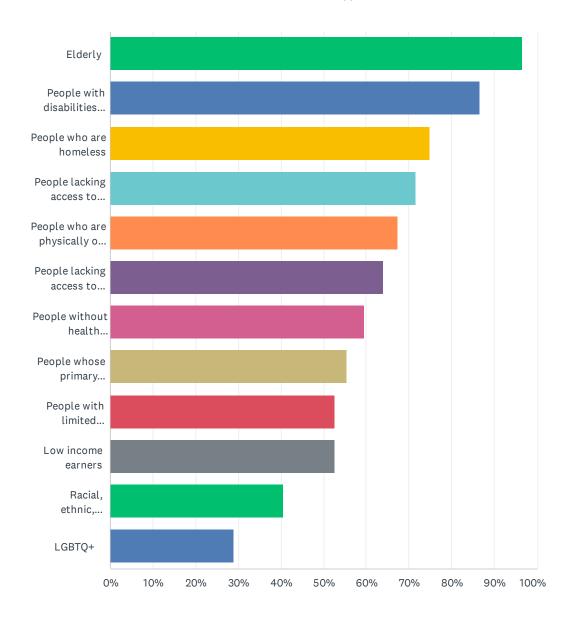




ANSWER CHOICES	RESPONSES	
Personal safety	72.29%	227
Other community services (hospital functions, police, EMS, etc)	57.64%	181
Utilities (loss of power, water, cable/internet, etc)	53.50%	168
Home	51.27%	161
Natural resources	46.18%	145
Roads	31.53%	99
Cultural or historical locations	23.89%	75
Not concerned	23.25%	73
Total Respondents: 314		

Q37 The term "vulnerable population" can refer to a variety of different populations, and these can vary between communities. Are there any populations that would be at increased risk to any of the hazards mentioned so far?



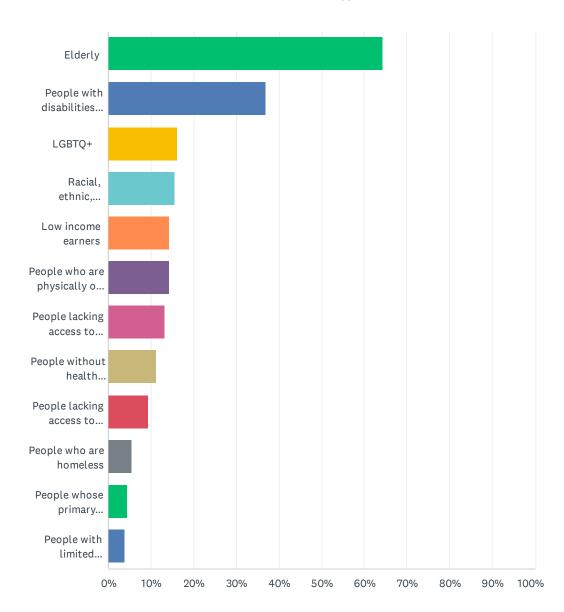


#### Lehigh Valley Hazard Mitigation Public Survey #2

ANSWER CHOICES	RESPONSES	6
Elderly	96.54%	279
People with disabilities or functional needs	86.51%	250
People who are homeless	74.74%	216
People lacking access to transportation	71.63%	207
People who are physically or socially isolated	67.47%	195
People lacking access to technology or with limited technological proficiency	64.01%	185
People without health insurance	59.52%	172
People whose primary language is not English	55.36%	160
People with limited literacy	52.60%	152
Low income earners	52.60%	152
Racial, ethnic, cultural, or religious minorities	40.48%	117
LGBTQ+	29.07%	84
Total Respondents: 289		

# Q38 Do you personally identify with any potentially vulnerable population(s)?

Answered: 160 Skipped: 241



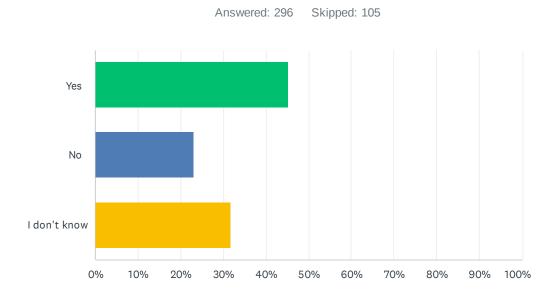
#### Lehigh Valley Hazard Mitigation Public Survey #2

ANSWER CHOICES	RESPONSES	
Elderly	64.38%	103
People with disabilities or functional needs	36.88%	59
LGBTQ+	16.25%	26
Racial, ethnic, cultural, or religious minorities	15.63%	25
Low income earners	14.37%	23
People who are physically or socially isolated	14.37%	23
People lacking access to transportation	13.13%	21
People without health insurance	11.25%	18
People lacking access to technology or with limited technological proficiency	9.38%	15
People who are homeless	5.63%	9
People whose primary language is not English	4.38%	7
People with limited literacy	3.75%	6
Total Respondents: 160		

# Q39 Are there any kinds of additional support you would like to see provided?

Answered: 154 Skipped: 247

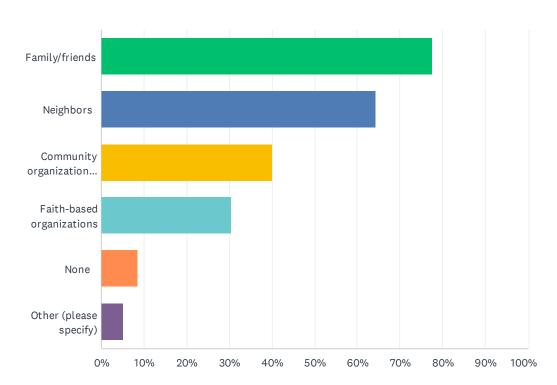
# Q40 If a program was offered, would you be interested in joining a community group that fosters emergency preparedness, community support, and discuss future mitigation opportunities?



ANSWER CHOICES	RESPONSES	
Yes	45.27%	134
No	22.97%	68
I don't know	31.76%	94
TOTAL		296

# Q41 In the event of an emergency, would you feel supported by any of the following?

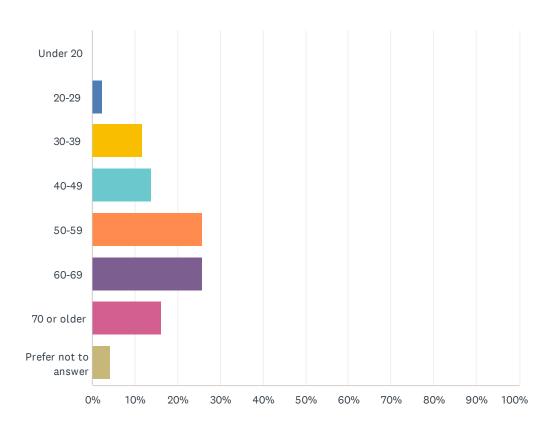




ANSWER CHOICES	RESPONSES	
Family/friends	77.63%	229
Neighbors	64.41%	190
Community organizations/centers	40.00%	118
Faith-based organizations	30.51%	90
None	8.47%	25
Other (please specify)	5.08%	15
Total Respondents: 295		

## Q42 What is your age?

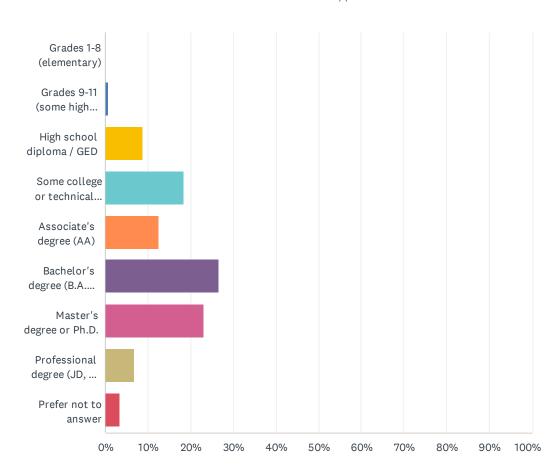
Answered: 298 Skipped: 103



ANSWER CHOICES	RESPONSES
Under 20	0.00%
20-29	2.35% 7
30-39	11.74% 35
40-49	13.76% 41
50-59	25.84% 77
60-69	25.84% 77
70 or older	16.11% 48
Prefer not to answer	4.36% 13
TOTAL	298

#### Q43 What is the highest level of education you have attained?

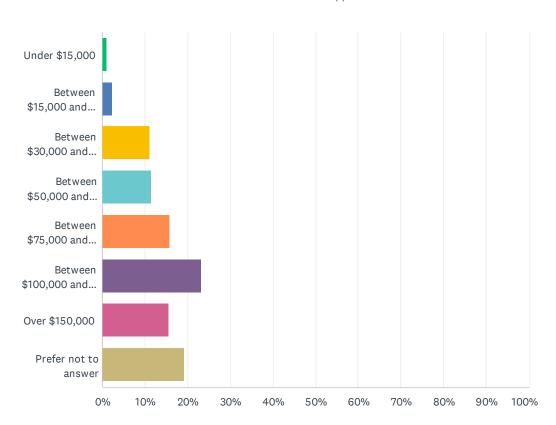




ANSWER CHOICES	RESPONSES	
Grades 1-8 (elementary)	0.00%	0
Grades 9-11 (some high school)	0.68%	2
High school diploma / GED	8.78%	26
Some college or technical school	18.24%	54
Associate's degree (AA)	12.50%	37
Bachelor's degree (B.A. or B.S.)	26.69%	79
Master's degree or Ph.D.	22.97%	68
Professional degree (JD, MD, MBA)	6.76%	20
Prefer not to answer	3.38%	10
TOTAL		296

#### Q44 What is your average annual household income? (before taxes)

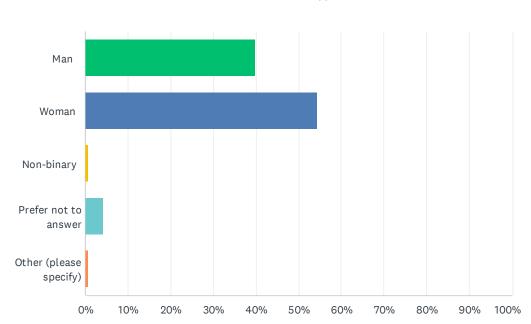




ANSWER CHOICES	RESPONSES	
Under \$15,000	1.01%	3
Between \$15,000 and \$29,999	2.36%	7
Between \$30,000 and \$49,999	11.15%	33
Between \$50,000 and \$74,999	11.49%	34
Between \$75,000 and \$99,999	15.88%	47
Between \$100,000 and \$150,000	23.31%	69
Over \$150,000	15.54%	46
Prefer not to answer	19.26%	57
TOTAL		296

## Q45 How would you describe your gender?

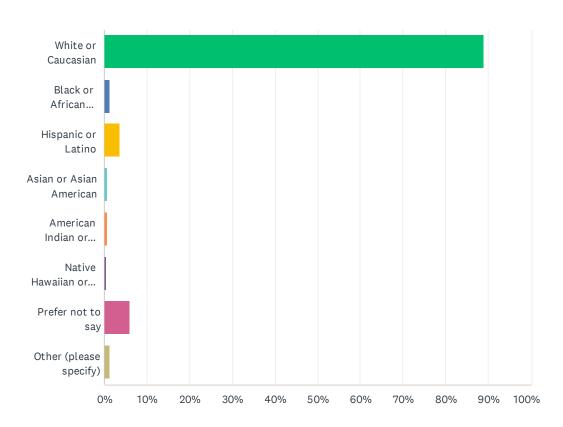




ANSWER CHOICES	RESPONSES	
Man	39.93%	119
Woman	54.36%	162
Non-binary	0.67%	2
Prefer not to answer	4.36%	13
Other (please specify)	0.67%	2
TOTAL		298

## Q46 How would you describe your race/ethnicity? You may select more than one.

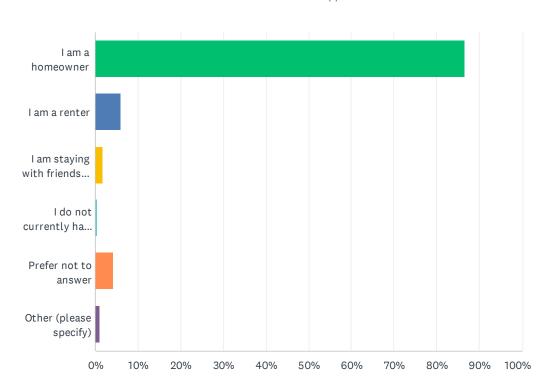




ANSWER CHOICES	RESPONSES	
White or Caucasian	88.93%	265
Black or African American	1.34%	4
Hispanic or Latino	3.69%	11
Asian or Asian American	0.67%	2
American Indian or Alaska Native	0.67%	2
Native Hawaiian or other Pacific Islander	0.34%	1
Prefer not to say	6.04%	18
Other (please specify)	1.34%	4
Total Respondents: 298		

## Q47 Which of the following best describes your current housing situation?

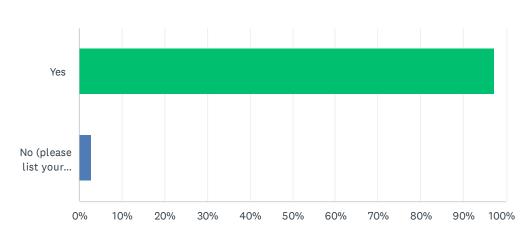




ANSWER CHOICES	RESPONSES	
I am a homeowner	86.58%	258
I am a renter	6.04%	18
I am staying with friends or relatives	1.68%	5
I do not currently have housing	0.34%	1
Prefer not to answer	4.36%	13
Other (please specify)	1.01%	3
TOTAL		298

## Q48 Is English your primary language?





ANSWER CHOICES	RESPONSES	
Yes	97.32%	290
No (please list your primary language)	2.68%	8
TOTAL		298

From: Morganti, Chelsea

To: <a href="mailto:tracym@alburtis.org">tracym@alburtis.org</a>; <a href="mailto:sng">snemeth@alburtis.org</a>; <a href="mailto:sng">office@alburtis.org</a>; <a href="mailto:emailto

manager@catasauqua.org; efrain.agosto@allentownpa.gov; tpaashaus@coopersburgborough.org; tbenson@coplayborough.org; publicworks@coplayborough.org; kmiller@emmauspa.gov; EMSchief@emmauspa.gov;

pw@fhboro.org; mwehr@hanleco.org; spadacciachris@qmail.com; genmcq27@qmail.com; emc@lowermilford.org;

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kwalbert@uppermilford.net; ecarter@uppermilford.net; cgarges@northwhitehall.org; pleonard@uppersaucon.org; DC25@ustpd.org; washtwpemc@ptd.net; fbartholomew@weisenbergfire.com; brian@weisenbergtownship.org; cgrim@whitehalltownship.com; jrackus@whitehalltownship.com; garykrill@gmail.com; manager@allentownship.org; jkresge@bangorborough.org; sreider@bangorborough.org; manager@boroughofbath.org; emc@boroughofbath.org; ema@eatwp.org; akelly@bethlehemtownship.org; dbruce@bethlehemtownship.org; belinda@bushkilltownship.com;

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philarmstrong@lehighcounty.org; danielbuglio@lehighcounty.org; lisacozzi@lehighcounty.org; kjones@bangorborough.org; rengle8906@aol.com; lee.lauback@allentownpa.gov; Szabo, Ernest; Matt McCullough;

Thomas Guth; Todd K. Weaver, ENP; Kevin Krotzer; Nicole Burton Norris, Katie; Estrada, Erika Lynn; Duffy, Mark W; Foss, Steven

Subject: Lehigh Valley Mitigation Strategy Meeting (hybrid)
Start: Thursday, January 18, 2024 7:00:00 AM

**End:** Thursday, January 18, 2024 8:00:00 AM

Location: Microsoft Teams Meeting; OR; Cetronia Ambulance Corps, 4300 Broadway, Allentown, PA 18104

Hello Lehigh Valley Hazard Mitigation Planning Team!

Please join us for a discussion of how to achieve resiliency in the face of natural hazards. We will review expected hazard impacts, set community goals for the future, and discuss some of the specific and actionable steps that make up the Mitigation Strategy section of your Hazard Mitigation Plan. This meeting is being offered simultaneously in-person and virtually via the Teams link bellow. Following this presentation, we are offering four (4) one-on-one workshop opportunities to discuss your specific mitigation actions, provide status updates, and develop new solutions. Invitations are being sent separately.

As a reminder, each jurisdiction must attend at least one (1) meeting and complete at least one (1) worksheet to be counted as a participating jurisdiction. If your entity does not participate, you will not be eligible to apply for project funding. Please reach out to me if you have any questions or concerns. Questions for the counties can be directed to:

Northampton - Thomas Guth

Cc:

Hazard Mitigation /Disaster Recovery Manager

Office: 610-746-3194 x3228

tguth@ncem-pa.orgor <mailto:tguth@ncem-pa.orgor>

Lehigh - Tanya Hook

Director for the Lehigh County Office of Emergency Management

610-782-4604 (office)

484-239-1090 (Cell)

tanyahook @lehigh county.org < mailto: tanyahook @lehigh county.org >

Thank you for your participation!

Microsoft Teams meeting

Join on your computer, mobile app or room device

8f5aa0794306%22%7d>

Meeting ID: 240 517 560 933 Passcode: eJ5iha

 $Download\ Teams < https://www.microsoft.com/en-us/microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft.com/microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft.com/microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft.com/microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft.com/microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web < https://www.microsoft-teams/download-app > \ |\ Join\ on\ the\ web > \ |\ Join\ on\ the$ teams/join-a-meeting>

Or call in (audio only)

+1 281-810-2971,,907954132# <tel:+12818102971,,907954132#> United States, Houston

Phone Conference ID: 907 954 132#

Find a local number <a href="https://dialin.teams.microsoft.com/ab44b397-3408-4c12-ab60-04ca94e72fbb?id=907954132">https://dialin.teams.microsoft.com/ab44b397-3408-4c12-ab60-04ca94e72fbb?id=907954132</a> | Reset PIN <a href="https://dialin.teams.microsoft.com/usp/pstnconferencing">https://dialin.teams.microsoft.com/usp/pstnconferencing</a>

US>

Morganti, Chelsea From:

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manager@catasauqua.org; efrain.agosto@allentownpa.gov; tpaashaus@coopersburgborough.org; tbenson@coplayborough.org; publicworks@coplayborough.org; kmiller@emmauspa.gov;

EMSchief@emmauspa.gov; pw@fhboro.org; mwehr@hanleco.org; spadacciachris@gmail.com; genmcg27@gmail.com; emc@lowermilford.org; njones@lowermac.com; tammyw@ptd.net; manager@macungie.pa.us; rholtzman@northwhitehall.org; cgarges@northwhitehall.org; tcunningham@salisburytownship.org; janems69@aol.com; petruccit@southwhitehall.com;

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pa.gov; Mackenzie Geisner; cruggiero@lvpc.org; crugg13@yahoo.com; toscavich@lvpc.org; srockwell@lvpc.org; massad@lvpc.org; tanyahook@lehighcounty.org; philarmstrong@lehighcounty.org;

danielbuglio@lehighcounty.org; lisacozzi@lehighcounty.org; kjones@bangorborough.org; rengle8906@aol.com; lee.lauback@allentownpa.gov; Thomas Guth; Todd K. Weaver, ENP; Kevin Krotzer; Nicole Burton

Cc:

Subject: Lehigh Valley Action Workshop (Centronia - 1 of 4)

Start: Thursday, January 18, 2024 8:00:00 AM End: Thursday, January 18, 2024 9:00:00 AM

Location: Cetronia Ambulance Corps, 4300 Broadway, Allentown, PA 18104

Attachments: image001.png

Please join us for a Mitigation Action Development Workshop as part of the update to the Lehigh Valley Hazard Mitigation Plan. This is the first of four offerings. You only need to attend one.

Chelsea Morganti

Director of Hazard Mitigation

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+1 985 781 0804 (24/7 emergency)

wittobriens.com <a href="https://www.wittobriens.com/">https://ambipar.com/</a>>

Witt O'Brien's is now part of the Ambipar Response group (NYSE: AMBI) <a href="https://www.wittobriens.com/witt-obriens-joins-ambipar-response-group-">https://www.wittobriens.com/witt-obriens-joins-ambipar-response-group-</a> expanding-global-reach-and-enhancing-resilience-services

NOTE FOR REVIEWER: The Planning Team had four opportunities to participate in an action development workshop. This was the first of four such opportunities, the other three were:

- January 18, 2024 at 4:00pm EST at the Cetronia Ambulance Corps
- January 19, 2024 at 9:00am EST at the Northampton County Emergency Management Office
- January 19, 2024 at 12:00pm EST at the Northampton County Emergency Management Office

## WITT O'BRIEN'S

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WITH YOU WHEN IT COUNTS



LEHIGH VALLEY
HAZARD MITIGATION PLAN

**Mitigation Strategy Meeting** 

JANUARY 18, 2024

wittobriens.com











#### HAZARD MITIGATION PLANNING TEAM ROLL CALL

#### **COUNTY REPRESENTATIVES**

Northampton County Emergency Management

Thomas E. Guth, Jr.

Hazard Mitigation /Disaster Recovery Manager

tguth@ncem-pa.org

610-746-3194 x3228

610-972-7490 (cell)

• Lehigh County Emergency Management (updated)

Tanya Hook

Director

tanyahook@lehighcounty.org

610-782-4604 (office)

484-239-1090 (cell)









- Naturally occurring event vs. human caused
- Destructive or negative impact on health, safety, life, and/or property

#### **MITIGATION**

- Steps taken by the public, civic leadership, or private companies to reduce negative impacts
- Most effective through innovative, systemic, and informed steps.









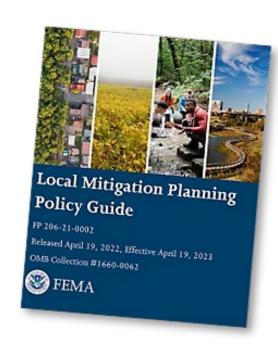


## 1. Introduction

## 1.1. Purpose of the Local Mitigation Planning Policy Guide

Local hazard mitigation plans form the foundation of a community's long-term strategy to reduce disaster losses and break the cycle of disaster damage, reconstruction and repetitive damage. The Federal Emergency Management Agency (FEMA) supports local mitigation planning to achieve the following:

- Foster partnerships among all levels of government.
- Develop and strengthen non-governmental and private partnerships.
- Promote more disaster-resilient and sustainable communities.
- Reduce the costs associated with disaster response and recovery by promoting mitigation activities.













#### Step 1 - Review

- Finalize the Mitigation Strategy January 19, 2024
- Update Mitigation Actions January 26, 2024
- Review Draft Plan January 29 to February 9, 2024

#### <u>Step 2 – Public Review</u>

- 30-minute Public and Stakeholder Review Meeting, Tuesday February 13, 2024 at 5:30 ET
- Public Review and Comment February 12<sup>th</sup> through February 23<sup>rd</sup> 2024
- FINAL EDITS DUE FEBRUARY 29, 2024

#### Step 3 – State and FEMA review

- Submission to PEMA March 4, 2024
- State Review
- FEMA Review
- Approval Pending Adoption
- Adoption must occur within
   12 months of APA
- Final Approval = DONE

## Plan Maintenance and Integration



- 1. The Lehigh Valley Hazard Mitigation Planning Team will largely remain intact as the group responsible for monitoring, evaluating and updating the 2024 Plan **on an annual basis**.
- 2. The Planning Team will be co-chaired by a person designated by both the Lehigh County OEM and Northampton County EM.
- 3. Each municipality is expected to <u>maintain a Planning Team point of contact</u>.
- 4. Each municipality, the counties or any other ancillary organization are <u>responsible for implementing their mitigation actions</u> and informing the Administrative Planning Team annually of any progress made.
- 5. This includes **incorporating actions into other planning documents**.







- **1. Mitigation Goals**: These represent the overarching aspirations of the Lehigh Valley. Defined as broad policy statements, they depict the long-term outcomes which the community seeks to achieve.
- **2. Mitigation Objectives**: These delve deeper, detailing strategies or steps aimed at realizing the aforementioned goals. Unlike the broad strokes of goals, objectives are precise, often measurable, and typically come with a defined timeline for achievement.
- **3. Mitigation Actions**: The Mitigation Strategy in Section 6 provides detailed explanations of specific tasks the participating jurisdictions can take to reduce risk associated with each hazard profiled in the plan and to achieve the plan's overall goals and objectives.

#### **Profiled Hazards**

14 Natural Hazards and 13 Other Hazards



#### **OTHER HAZARDS**

- Environmental Hazards / Hazardous Materials Release
- Utility Interruption
- Gas/Liquid Pipelines\*
- Opioid Addiction
- Urban Fire / Explosion
- Transportation Accidents
- Building Collapse
- Civil Disturbance
- Dam Failure
- Levee Failure
- Terrorism
- Cyber-Terrorism\*
- Nuclear Incidents

## Hazard Priority Ranking



**Probability – 30%** What is the likelihood of a hazard event occurring in a given year?

**Impact – 30%** In terms of injuries, damage, or death, would you anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs?

**Spatial Extent- 20%** How large of an area could be impacted by a hazard event? Are impacts localized or regional?

**Warning Time - 10%** Is there usually some lead-time associated with the hazard event? Have warning measures been implemented?

**Duration – 10%** How long does the hazard event usually last?



## Hazard Priority Ranking

Hazards Ranked - HIGH



Hazard Risk	Natural Hazards	Probability	Impact	Extent	Warning	Duration	Risk Factor
HIGH	Extreme Temperature	3	3	3	1	3	2.8
	Flood	4	2	2	3	3	2.8
	Winter Storm	3	2	4	2	2	2.7
	Windstorm / Tornado	2	3	3	3	2	2.6
	Invasive Species	4	1	3	1	4	2.6
	Drought	2	2	4	1	4	2.5

Hazard Risk	Non – Natural Hazards	Probability	Impact	Extent	Warning	Duration	Risk Factor
нібн	Environmental Hazard / Explosion	4	2	2	4	2	2.8
	Utility Interruption	3	1	3	4	3	2.5
	Drug Overdose Crisis	4	2	1	1	4	2.5

# Hazard Priority Ranking Hazards Ranked - MODERATE



Hazard Risk	Natural Hazards	Probability	Impact	Extent	Warning	Duration	Risk Factor
	Pandemic and Infectious Disease	3	2	2	1	4	2.4
MODERATE	Radon	4	1	2	1	4	2.4
WODERAIL	Subsidence / Sinkhole	3	2	1	4	1	2.2
	Wildfire	2	2	2	3	2	2.1
	Lightning	4	1	1	3	1	2.1

Hazard Risk	Non – Natural Hazards	Probability	Impact	Extent	Warning	Duration	Risk Factor
	Fire (Urban / Structural)	3	2	1	4	2	2.3
	Transportation Crash	4	1	1	4	1	2.2
	Structural Collapse	2	3	1	4	1	2.2
MODERATE	Civil Disturbance / Mass Gathering	4	1	1	2	2	2.1
	Dam Failure	1	3	2	4	1	2.1
	Levee Failure	1	3	2	4	1	2.1
	Terrorism	1	3	1	4	2	2.0

# Hazard Priority Ranking Hazards Ranked - LOW



<b>Hazard Risk</b>	Natural Hazards	Probability	Impact	Extent	Warning	Duration	<b>Risk Factor</b>
	Earthquake	1	1	4	4	1	1.9
LOW	Hailstorm	2	1	2	3	1	1.7
	Landslide	1	1	1	4	1	1.3

Hazard Risk	Non – Natural Hazards	Probability	Impact	Extent	Warning	Duration	Risk Factor
LOW	Nuclear Incident	1	1	2	4	1	1.5



## Goals From 2018 - part 1

Goal 1: To minimize the risk to human life associated with natural and nonnatural hazards (NFIP).

Goal 2: To promote hazard avoidance, especially in floodplains (NFIP).

Goal 3: To reduce the damages and functional loss from natural and nonnatural hazards to existing and future public and private assets, including structures, critical facilities and infrastructure (NFIP).

Goal 4: To preserve and enhance the effectiveness of natural resources, including woodlands, streams, rivers, wetlands, floodplains and riparian buffers to provide resiliency benefits (NFIP).





## Goals From 2018 - part 2

Goal 5: To develop, prioritize and implement cost-effective, long-term actions that will reduce the impacts of natural and non-natural hazards (NFIP).

Goal 6: To improve local regulations to reduce the impacts of natural and nonnatural hazards (NFIP).

Goal 7: To enhance planning and emergency response efforts among federal, state, county and local emergency management personnel to protect public health and safety.

Goal 8: To promote public awareness on both the potential impacts of natural and non-natural hazards and actions to reduce those impacts (NFIP).









#### What Federal Mitigation Grant Programs are Available?

- Buyout Program Implementation and Residential Elevations
- Residential and Commercial Floodproofing and Wind Retrofit
- Flood Control Projects
- Coastal Resilience
- Nature-Based Solutions
- Infrastructure and Utility Hardening





**HMGP** 

**HMGP Post Fire** 





**FMA** 

**BRIC** 

## **HMA Funding Branches**

### **NON-DISASTER GRANT PROGRAMS**















## **Scoping and Phasing Construction**

Scoping and i	ridding Conduct	17752. OTPS. AIMAL.	
	Project Scoping	Phased Projects	Regular Projects
Description	Develop mitigation strategies and obtain data to prioritize, select, and develop complete HMGP, BRIC, or FMA applications	Complex project applications that have not yet met all eligibility requirements, including completion of EHP, design, engineering, final Benefit-Cost Analysis (BCA), and permitting.	<ol> <li>Reduce risk and increase resilience</li> <li>Benefit disadvantaged community(s)</li> <li>Increases climate change resiliency</li> <li>High chance of success</li> <li>Leverage partnerships</li> <li>Engage the community</li> </ol>
Example	<ul> <li>Feasibility studies</li> <li>Engineering/Design</li> <li>Environmental studies</li> <li>Benefit-Cost Analysis</li> </ul>	<ul> <li>Removing property or infrastructure from the mapped hazard area (acquisitional Reduce impacts to property or infrastructure from hazards (elevation, floodpinal Cultivation, expansion, and support of naturally resilient acreage (wetlands, or reefs)</li> <li>Hardening the built environment (electrical micro grids, hurricane straps, retranon-combustible materials)</li> <li>Reducing fuel loads (wildfire thinning, removal of non-native vegetation, defensions)</li> <li>Reduce seismic impact on structures (base isolation, reinforcement of mason structures)</li> <li>Increase capacity to pass storm water and increase rainfall (detention basins culverts, pump stations, "Localized Flood Risk Reduction"</li> </ul>	
BCA Required	No	Yes*	Yes** 258

## Developing a Scope of Work

Tell Your Story



23



## **Actions Requirements**



Local Hazard Mitigation Planning Policy Guide states:

E2-b. The plan **must describe the status of all hazard mitigation actions in the previous plan** by identifying whether they have been completed or not, for each jurisdiction. For actions that are not complete, the plan must state whether the action is no longer relevant or will be included in the updated action plan

C4-b. Each plan participant **must identify one or more mitigation actions** the participant(s) intends to implement **for each hazard** addressed in the risk assessment. The actions **must be achievable** and demonstrate how the mitigation activities reduce the risks identified in the risk assessment.

#### PEMA SOG recommends:

"At least one overarching action pertaining to performing structural projects or property protection including elevation, acquisition, relocation, and/or retrofitting should be included in the plan so that those types of projects to mitigate losses from floods and earthquakes can be funded after a disaster occurs."





1. Summary						
Meeting title	Lehigh Valley Mitigation Strategy Meeting (hybrid)					
Attended participants		33				
Start time	1/18/24. 6:27:02 AM	-				
End time	1/18/24, 8:26:01 AM					
Meeting duration	1h 58m 59s					
Average attendance time	57m 48s					
Average attendance and	07111-403					
2. Participants						
Name	First Join	Last Leave	In-Meeting Duration	Email	Participant ID (UPN)	Role
Chelsea Morganti	1/18/24, 6:53:09 AM	1/18/24, 8:05:11 AM	1h 12m 2s	cmorganti@wittobriens.com	cmorganti@wittobriens.com	Organizer
Craig Beavers	1/18/24, 6:36:58 AM	1/18/24, 8:04:14 AM	1h 27m 16s	CBeavers@palmertwp.com	CBeavers@palmertwp.com	Presenter
Gary Krill (Guest)	1/18/24, 6:38:08 AM	1/18/24, 8:05:08 AM	1h 26m 59s			Presenter
Jennifer Bogari	1/18/24, 6:42:03 AM	1/18/24, 8:04:21 AM	1h 22m 18s	jbogari@lnaa.com	jbogari@lnaa.com	Presenter
Brent Green, East Allen Township	1/18/24, 6:45:18 AM	1/18/24, 8:04:26 AM	1h 19m 7s			Presenter
Melody Ernst	1/18/24, 6:46:15 AM	1/18/24, 8:04:35 AM	1h 18m 20s	mernst@williamstwp.org	mernst@williamstwp.org	Presenter
Norris, Katie	1/18/24, 6:46:33 AM	1/18/24, 8:10:59 AM	1h 24m 26s	KNorris@wittobriens.com	KNorris@wittobriens.com	Presenter
Wilson Borough Fire Chief	1/18/24, 6:49:48 AM	1/18/24, 8:04:34 AM	1h 14m 46s	firechief@wilsonborough.org	firechief_wilsonborough.org#EXT#@wittobriens.onmicrosoft.com	Presenter
Mark Morella - Nazareth	1/18/24, 6:50:02 AM	1/18/24, 8:04:37 AM	1h 14m 34s			Presenter
genemcg	1/18/24, 6:51:42 AM	1/18/24, 8:17:26 AM	1h 25m 44s			Presenter
Angela Kelly	1/18/24, 6:55:51 AM	1/18/24, 8:04:13 AM	1h 8m 21s			Presenter
Susan Rockwell	1/18/24, 6:56:04 AM	1/18/24, 8:04:16 AM		SRockwell@lvpc.org	SRockwell@lvpc.org	Presenter
Dane Carroll - Upper Saucon Twp	1/18/24, 6:57:57 AM	1/18/24, 7:34:31 AM		5		Presenter
Thomas Barnowski	1/18/24, 6:58:31 AM	1/18/24, 8:05:31 AM		Tbarnowski@northampton.edu	tbarnowski@northampton.edu	Presenter
Katie Purdue	1/18/24, 6:59:00 AM	1/18/24, 8:04:22 AM		secretary@washington-township.com	secretary@washington-township.com	Presenter
Duffy, Mark W	1/18/24, 6:59:07 AM	1/18/24, 8:04:50 AM		MDuffy@wittobriens.com	MDuffy@wittobriens.com	Presenter
teamsvisitor:426bcadf5f604005aef1042b1db5f8be	1/18/24, 6:59:38 AM	1/18/24, 7:12:29 AM		. , ,	70	Presenter
Don Dereamus	1/18/24, 7:00:01 AM	1/18/24, 8:04:44 AM		ddereamus@suburbanems.org	ddereamus_suburbanems.org#EXT#@wittobriens.onmicrosoft.com	Presenter
Kent Baird	1/18/24, 7:01:58 AM	1/18/24, 8:05:40 AM	1h 3m 41s	KBaird@palmertwp.com	KBaird@palmertwp.com	Presenter
Heather Fischer   Portland	1/18/24, 7:02:14 AM	1/18/24, 8:04:26 AM				Presenter
Jennifer Smethers	1/18/24, 7:02:15 AM	1/18/24, 8:25:48 AM		manager@lowermtbethel.org	manager@lowermtbethel.org	Presenter
Joan Heebner	1/18/24, 7:02:31 AM	1/18/24, 8:04:56 AM		boroughmanager@westeastonborough.org	boroughmanager@westeastonborough.org	Presenter
1610216671	.6 1/18/24, 7:05:11 AM	1/18/24, 7:56:46 AM				Attendee
Tom Petrucci	1/18/24, 7:05:44 AM	1/18/24, 7:27:50 AM	22m 6s	petruccit@southwhitehall.com	petruccit@southwhitehall.com	Presenter
Keith Miller	1/18/24, 7:05:44 AM	1/18/24, 7:45:22 AM	39m 37s	•	•	Presenter
Brad Petrohoy, North Whitehall Township	1/18/24, 7:10:53 AM	1/18/24, 8:05:27 AM	54m 33s			Presenter
Robin Zmoda, Pen Argyl Borough	1/18/24, 7:11:50 AM	1/18/24, 8:04:21 AM				Presenter
Agosto, Efrain	1/18/24, 7:12:00 AM	1/18/24, 8:04:25 AM	52m 24s	Efrain.Agosto@allentownpa.gov	Efrain.Agosto@Allentownpa.gov	Presenter
McGorry, Sue	1/18/24, 7:20:48 AM	1/18/24, 8:04:40 AM		Sue.McGorry@desales.edu	Sue.McGorry@desales.edu	Presenter
Dane Carroll - Upper Saucon Twp	1/18/24, 7:31:27 AM	1/18/24, 8:04:36 AM		,-		Presenter
Keith Miller	1/18/24, 7:49:18 AM	1/18/24, 8:04:23 AM				Presenter
dan (Guest)	1/18/24, 7:58:04 AM	1/18/24, 8:26:01 AM				Presenter
Wendling, Jennifer Irene	1/18/24, 7:58:13 AM	1/18/24, 8:21:10 AM		jib5171@psu.edu	jib5171@psu.edu	Presenter
3. In-Meeting Activities						
Name	Join Time	Leave Time	Duration	Email	Role	
Chelsea Morganti	1/18/24, 6:53:09 AM	1/18/24, 8:05:11 AM		cmorganti@wittobriens.com	Organizer	
Craig Beavers	1/18/24, 6:36:58 AM	1/18/24, 8:04:14 AM		CBeavers@palmertwp.com	Presenter	
Gary Krill (Guest)	1/18/24, 6:38:08 AM	1/18/24, 8:05:08 AM			Presenter	
Jennifer Bogari	1/18/24, 6:42:03 AM	1/18/24, 8:04:21 AM		jbogari@lnaa.com	Presenter	
Brent Green, East Allen Township	1/18/24, 6:45:18 AM	1/18/24, 8:04:26 AM		10 1111	Presenter	
Melody Ernst	1/18/24, 6:46:15 AM	1/18/24, 8:04:35 AM		mernst@williamstwp.org	Presenter	
Norris, Katie	1/18/24, 6:46:33 AM	1/18/24, 8:10:59 AM		KNorris@wittobriens.com	Presenter	
Wilson Borough Fire Chief	1/18/24, 6:49:48 AM	1/18/24, 8:04:34 AM	1h 14m 46s	firechief@wilsonborough.org	Presenter	

1/18/24, 8:04:37 AM 1h 14m 34s

1/18/24, 6:50:02 AM

Mark Morella - Nazareth

Presenter

genemcg	1/18/24, 6:51:42 AM	1/18/24, 8:17:26 AM	1h 25m 44s		Presenter
Angela Kelly	1/18/24, 6:55:51 AM	1/18/24, 8:04:13 AM	1h 8m 21s		Presenter
Susan Rockwell	1/18/24, 6:56:04 AM	1/18/24, 8:04:16 AM	1h 8m 11s	SRockwell@lvpc.org	Presenter
Dane Carroll - Upper Saucon Twp	1/18/24, 6:57:57 AM	1/18/24, 7:34:31 AM	36m 33s		Presenter
Thomas Barnowski	1/18/24, 6:58:31 AM	1/18/24, 8:05:31 AM	1h 6m 59s	Tbarnowski@northampton.edu	Presenter
Katie Purdue	1/18/24, 6:59:00 AM	1/18/24, 8:04:22 AM	1h 5m 22s	secretary@washington-township.com	Presenter
Duffy, Mark W	1/18/24, 6:59:07 AM	1/18/24, 8:04:50 AM	1h 5m 43s	MDuffy@wittobriens.com	Presenter
teamsvisitor:426bcadf5f604005aef1042b1db5f8be	1/18/24, 6:59:38 AM	1/18/24, 7:12:29 AM	12m 51s		Presenter
Don Dereamus	1/18/24, 7:00:01 AM	1/18/24, 8:04:44 AM	1h 4m 42s	ddereamus@suburbanems.org	Presenter
Kent Baird	1/18/24, 7:01:58 AM	1/18/24, 8:05:40 AM	1h 3m 41s	KBaird@palmertwp.com	Presenter
Heather Fischer   Portland	1/18/24, 7:02:14 AM	1/18/24, 8:04:26 AM	1h 2m 12s		Presenter
Jennifer Smethers	1/18/24, 7:02:15 AM	1/18/24, 8:04:24 AM	1h 2m 8s	manager@lowermtbethel.org	Presenter
Jennifer Smethers	1/18/24, 8:16:50 AM	1/18/24, 8:25:48 AM	8m 57s	manager@lowermtbethel.org	Presenter
Joan Heebner	1/18/24, 7:02:31 AM	1/18/24, 8:04:56 AM	1h 2m 24s	boroughmanager@westeastonborough.org	Presenter
16102166716	6 1/18/24, 7:05:11 AM	1/18/24, 7:56:46 AM	51m 34s		Attendee
Tom Petrucci	1/18/24, 7:05:44 AM	1/18/24, 7:27:50 AM	22m 6s	petruccit@southwhitehall.com	Presenter
Keith Miller	1/18/24, 7:05:44 AM	1/18/24, 7:45:22 AM	39m 37s		Presenter
Brad Petrohoy, North Whitehall Township	1/18/24, 7:10:53 AM	1/18/24, 8:05:27 AM	54m 33s		Presenter
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McGorry, Sue	1/18/24, 7:20:48 AM	1/18/24, 8:04:40 AM	43m 51s	Sue.McGorry@desales.edu	Presenter
Dane Carroll - Upper Saucon Twp	1/18/24, 7:31:27 AM	1/18/24, 8:04:36 AM	33m 8s		Presenter
Keith Miller	1/18/24, 7:49:18 AM	1/18/24, 8:04:23 AM	15m 5s		Presenter
dan (Guest)	1/18/24, 7:58:04 AM	1/18/24, 8:26:01 AM	27m 56s		Presenter
Wendling, Jennifer Irene	1/18/24, 7:58:13 AM	1/18/24, 7:58:45 AM	32s	jib5171@psu.edu	Presenter
Wendling, Jennifer Irene	1/18/24, 8:20:52 AM	1/18/24, 8:21:10 AM	17s	jib5171@psu.edu	Presenter





# Sign-In Sheet: Strategy Meeting January 18, 2024

Name	Organization	Email	Signature
Scott REHEIL	LEHAH TUP	ENC Q LAMORTANSINS. O	u SIL
Michael Rehrig	Lehigh Tup	1ehigh deptyence graition.	Michelly
Kyle Walbert	Upper Milford Twp	kwalberte uppormilled not	
PETER D. Christ	Upper Macongis Townstip	polist@uppermak.org	Pan ale
John 6, Frants	South Whitehall Trosp	Frantz je southwhitehallicon	WH.
Greg Scheirer	North CATASAUGLA BACH BORO	Frantz je southwhitehallicon Scheinerge gmil, com	Streg Scherin
LOIS TIGNETUR	GAST Allow Two	Scheirerge gmil, com EMCD Borough of Bath DRQ RNOVATMARK @ BETHIEREN-PA.GOV	Luis E. Figueroa
Bob NOVATUACIE	GAST Allen Two	RNOVATNAKE @ BETHlehen-PA.GOV	R.W. Nachel
Janya Hook	Lehigh County	tanua hook @	Janya Hook
THOMAS E. GUTA, JA	Northandton Em	,	Thomas Sut

Lehigh Valley Hazard Mitigation Plan – 2024 Update

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Name	Organization	Email	Signature
Donner Jacobs	North whitehalf Tup EMA	Drue Don Jacobsong	My
CARL A. MANGES	CITY OF EASTON	DTILLMAND ENTON-A	9.60V
CARL A. MANGES	CITY OF EASTON	CMANGESGEASTON-PA	Gov Co



## **Goal and Objective Review Worksheet**

Community/Organization:	e and Title:
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Use the comment boxes to provide feedback or to suggest modification of any of the proposed goals or objectives. You may suggest additional objectives below each goal, or new goals and objectives on the last page of this exercise.

Propose	ed Goals and Objectives	Comments
Goal 1: Minimize the risk to human life associated with natural and non-natural hazards.	Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation planning and actions.      Continuously promote and maintain better early warning and emergency communications.      Provide added protection for vulnerable	
Goal 2: Promote hazard avoidance, especially in floodplains.	populations.  1. Minimize future risk of losses associated with structures, including repetitive loss structures.  2. Reduce flooding potential through planning, training, and outreach.  3. Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.	
Goal 3: Reduce the damages and functional loss from natural and non-natural hazards to existing and future public and private assets, including structures, critical facilities, and infrastructure.	<ol> <li>Identify the current risks of critical facilities and infrastructure from hazards, and determine actions to lessen those risks in the future.</li> <li>Encourage and/or perform regular maintenance and upgrades of existing drainage systems potentially impacting critical facilities.</li> <li>Encourage and/or provide backup power resources (generators) for critical facilities.</li> <li>Encourage and/or perform maintenance and updates to reduce long-term vulnerability to high hazard potential dams.</li> </ol>	

Propose	ed Goals and Objectives	Comments
Goal 4:	Encourage and/or provide maintenance and	
Preserve and enhance the	restoration of streams and rivers and associated	
effectiveness of natural	floodplains to naturally provide flood mitigation.	
resources, including		
woodlands, streams, rivers,	2. Encourage regulation of and/or regulate	
wetlands, floodplains and	development in priority conservation areas, including	
riparian buffers to provide	floodplains, to minimize flood damage.	
resiliency benefits.		
Goal 5:	Thoroughly assess the community, established	
Develop, prioritize, and	capabilities, and identify specific cost-effective	
implement cost-effective,	actions for improvement, relative to existing and	
long-term actions that will	future hazard risks.	
reduce the impacts of natural	2. Establish mitigation action priorities, encourage,	
and non-natural hazards.	and track progress.	
	Better integrate hazard mitigation planning with	
Goal 6:	comprehensive planning and land use regulations.	
Improve local regulations to	Identify and promote "best practices" for	
reduce the impacts of natural	municipal regulation of land use in zoning and	
and non-natural hazards.	subdivision ordinances and official maps.	
	3. Encourage proactive planning for potential hazard	
	events and potential related property damage.	
	4. Incorporate hazard mitigation planning into	
Goal 7:	existing municipal policy.  1. Continually improve communication capabilities,	
	training, and coordination for hazard events.	
Enhance planning and	Continually improve the planning for shelters,	
emergency response efforts	evacuation routes, and disaster recovery.	
among federal, state, county,	3. Continue the promotion of disaster resiliency in	
and local emergency	the business community.	
management personnel to	4. Maintain and/or upgrade emergency response	
protect public health and	equipment and resources.	
safety.		

Propose	ed Goals and Objectives	Comments
Goal 8: Improve local regulations to reduce the impacts of natural	<ol> <li>Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.</li> <li>Encourage and/or provide public education</li> </ol>	
and non-natural hazards.	programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.	
New Goal:	New Objective 1:	
	New Objective 2:	
	New Objective 3:	
	New Objective 4:	





### **Hazard Prioritization Matrix**

Community/Organization: Na	Name and Title:
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**Purpose:** To determine the Risk Factor (RF) for each hazard.

**Instructions:** Review the Risk Factor calculations in the table below from the 2018 plan, which are based on the Degree of Risk definitions provided on the back of the worksheet. If you believe any of these risk factors need to be updated, please make note of those requested changes in the Notes column, the Comments space provided below, or directly in the table.

Natural Hazards	Probability	Impact	Extent	Warning	Duration	Notes
Extreme Temperature						
Flood						
Winter Storm						
Windstorm / Tornado						
Invasive Species						
Drought						
Pandemic/Infectious Disease						
Radon						
Subsidence / Sinkhole						
Wildfire						
Lightning						
Earthquake						
Hailstorm						
Landslide						

**Comments:** 

Risk Assessment	Degree of Risk				
Category	Level	Cr	iteria	Index	Weight Value
<b>Probability:</b> What is the likelihood of a hazard	Unlikely Possible	Less than 1% annual probability Between 1% and 49.9% annual probability		1 2	30%
event occurring in a given year?	Likely	Between 50% and probability	90% annual	3	
	Highly Likely	Greater than 90%	annual probability	4	
	Minor	Very few injuries, in property damage and disruption on qual shutdown of critical	1	30%	
Impact: In terms of injuries, damage, or death, would you	Limited	Minor injuries. More than 10% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than one day.		2	
anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs?	Critical	Multiple deaths / injuries possible.  More than 25% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than a week.		3	
	Catastrophic	affected area dam	in 50% of property in aged or destroyed.	4	
Spatial Extent: How large of an area could be impacted by a hazard	Negligible Small	Less than 1% of area affected Between 1% and 10.9% of area affected		1 2	20%
event? Are impacts	Moderate	Between 11% and 25% of area affected		3	
localized or regional?	Large	Greater than 25% of area affected		4	
Warning Time: Is there usually some lead-time associated with the hazard event? Have warning measures been implemented?	More than 24 hours 12 to 24 hours 6 to 12 hours Less than 6 hours	Self-Defined Self-Defined Self-Defined Self-Defined	Note: Levels of warning time and criteria that define them may be adjusted based on the hazard addressed.	1 2 3 4	10%
<b>Duration:</b> How long does the hazard event usually last?	Less than 6 hours Less than 24 hours Less than 1 week More than 1 week	Self-Defined Self-Defined Self-Defined Self-Defined	Note: Levels of warning time and criteria that define them may be adjusted based on the hazard addressed.	1 2 3 4	10%





## **Strategy Assessment Survey**

**Community/Organization:** 

Name and Title:

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action *categories* identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	
	Conduct storm drainage and flood control projects at critical facilities, including relocation	
	Conduct storm drainage and flooding projects at non-critical facilities	
	Restore or stabilize streams and floodplain	
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	
Compliance	Participate in the Community Rating System	
	Obtain/archive elevation certificates	
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	
	Continue to support implementation, monitoring, maintenance and updating of the plan	
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	
	Integrate hazard mitigation into local plans and ordinances	
	Increase emergency notifications, communication, and traffic control capabilities	
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	
Hazard Action	Reduce risk associated with high-hazard potential dams	
Categories	Reduce risk associated with other dams and levees	
Other Natural	Replace or retrofit bridges	
Hazard	Reduce risk associated with wildfire	
Categories	Install backup power at critical facilities	
	Conduct other non-flood-related retrofits of critical facilities	
	Work to minimize tree/electric line conflicts	
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	
	Purchase or relocate structures in hazard prone areas	

Action Category Group	Action Category	Priority Score
Additions		
Since 2018 Plan		

From: <u>Tanya Hook</u>

To: manager@catasauqua.org; firechief@catasauqua.org

Cc: Morganti, Chelsea

Subject: [EXTERNAL] Reminder: Worksheet Participation

Date: Tuesday, January 30, 2024 10:51:08 AM

Attachments: HAZARD MITIGATION ANNEX REVIEW GUIDE UST 2020112.docx

UPDATED-Catasaugua-Borough-Annex-2022 (1).pdf

Importance: High

#### Good Afternoon,

I hope you had a wonderful holiday season. Lehigh County Emergency Management needs your participation and assistance, we are in the final stages of completing the 5-year required update of the Lehigh Valley Hazard Mitigation Plan. To ensure your municipality is included in the update and continues to be eligible for Hazard Mitigation and Disaster Grant Funding, your jurisdiction must:

1. Complete at least one worksheet to meet the minimum participation requirements

#### **Worksheet Opportunity:**

To full fill this requirement you may:

- Complete the survey at this link that <u>will count</u> as one of your worksheet participation events: https://www.surveymonkey.com/r/96GYHQY
- Review your municipal annex at <u>Hazard Mitigation | (ncem-pa.org)</u> and email me with any changes, additions or deletions. You may capture on the attached document or just print your annex and make the corrections on the document and email back to me.

If you have any questions or concerns, please don't hesitate to reach out to me.

Sincerely,

Tanya Hook
Director
Lehigh County Office of Emergency Management
640 W Hamilton Street, 8th Floor
Allentown, PA 18101
610-782-4604 (Office)
484-239-1090 (Cell)
tanyahook@lehighcounty.org

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The Northampton and Lehigh County Emergency Management Offices, in collaboration with Witt O'Brien's, are pleased to announce that draft copies of the most recent bi-county Hazard Mitigation Plan have been released and are ready for <u>public review and comment</u>. Whether you are a resident, business owner, or a visitor to either County, we are looking for your input, and there are several ways for you to participate and share this information with others – find ways to participate below!

A five-year update to the Hazard Mitigation Plan (HMP) is required for communities in Lehigh and Northampton Counties to be eligible for certain types of state and federal mitigation disaster assistance funding. The term "Hazard Mitigation" describes actions that can help reduce or eliminate long-term risks caused by hazards or disasters. The HMP process includes identifying local risks and vulnerabilities associated with disasters and developing long-term strategies to protect people and property from future hazards.

Engaging as many voices from the community as possible is important to the success of the HMP update. Therefore, we welcome public participation in the upcoming virtual meeting as well as public review and comment on the draft 2024 Lehigh Valley Hazard Mitigation Plan.

Where can I find the draft plan and survey link to provide feedback?

- Find the draft Plan materials as well as the feedback/comment survey link by visiting the project website at: 2024 Mitigation Plan | (ncem-pa.org).
- The HMP will be available for review and comment until March 25, 2024!

Public is also welcome to attend the virtual "Public Review Meeting" which is being held on Wednesday, March 6, 2024 from 4:30 pm until 5:00 pm. (NO registration NEEDED!)

• Can find the Microsoft Teams Meeting link by visiting: 2024 Mitigation Plan | (ncem-pa.org)

Comments, questions or concerns can be directed to the appropriate Plan Co-Chair – contact information can be found at: <a href="https://ncem-pa.org/2024-mitigation-plan/">https://ncem-pa.org/2024-mitigation-plan/</a> - scroll to bottom.

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#### hat is hazard mitigation planning? What is the purpose of having a hazard mitigation plan?

izard mitigation planning reduces loss of life and property by minimizing the impact of disasters. It gins with state, tribal, and local governments identifying natural disaster risks and vulnerabilities that e common in their area. After identifying these risks, they develop long-term strategies for protecting ople and property from similar events. Mitigation plans are key to breaking the cycle of disaster damage d reconstruction.

#### ckground of the Lehigh Valley Hazard Mitigation Plan

e Lehigh Valley Hazard Mitigation Plan, since its inception, has always been a bi-county plan compassing both Lehigh and Northampton counties as well as the 62 municipalities found within. The high Valley drafted hazard mitigation plans in 2006, 2013, and 2018. Federal regulation requires that ans be updated every five years, but perhaps more importantly, the effects of climate and cultural anges and emerging hazards require that we evolve our methods of preparing for disaster.

ne Lehigh Valley Hazard Mitigation Plan reflects that evolution.

ne 2024 Hazard Mitigation Plan covers the twenty-five (25) natural and non-natural hazards that were vered in the previous plan. However, two (2) new hazards have been added to combat changes in a gion that continues to grow its population by more than five thousand (5,000) residents per year. The



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e 2024 Hazard Mitigation Plan covers the twenty-five (25) natural and non-natural hazards that were ered in the previous plan. However, two (2) new hazards have been added to combat changes in a ion that continues to grow its population by more than five thousand (5,000) residents per year. The way added hazards are: Gas/Liquid Pipelines and Cyber-Terrorism. Both new hazards can be found der the "non-natural" hazard list. See the the entire hazard list and their respective rankings within the high and Northampton County Annex.



#### Mitigation goals within this Plan

- 1. To minimize the risk to human life associated with natural and non-natural hazards.
- 2. To promote hazard avoidance, especially in floodplains.
- 3. To reduce the damages and functional loss from natural and non-natural hazards to existing and future public and private assets, including structures, critical facilities, and infrastructure.
- 4. To preserve and enhance the effectiveness of natural resources, including woodlands, streams, rivers, wetlands, floodplains, and riparian buffers to provide resiliency benefits.
- 5. To develop, prioritize, and implement cost-effective, long-term actions that will reduce the impacts of natural and non-natural hazards.
- 6. To improve local regulations to reduce the impacts of natural and non-natural hazards.
- 7. To enhance planning and emergency response efforts among federal, state, county, and local emergency management personnel to protect public health and safety.
- 8. To promote public awareness of both the potential impacts of natural and non-natural hazards and actions to reduce those impacts.

Northampton & Lehigh County Emergency Management offices with the support of Witt O'Brien's are delighted to announce the release of the draft 2024 Lehigh Valley Hazard Mitigation Plan.

#### Notice of DRAFT Document for Public Review

278

NOTE: All documents found below pertaining to the 2024 Lehigh Valley Hazard Mitigation Plan are being shared in

Home About v 911 / Systems ~ Emergency Management >

CodeRED

Community Preparedness >

**Hospital Diverts** 

Northampton & Lehigh County Emergency Management offices with the support of Witt O'Brien's are delighted to announce the release of the draft 2024 Lehigh Valley Hazard Mitigation Plan.

#### Notice of DRAFT Document for Public Review

**NOTE:** All documents found below pertaining to the 2024 Lehigh Valley Hazard Mitigation Plan are being shared in their DRAFT form to provide Public review.

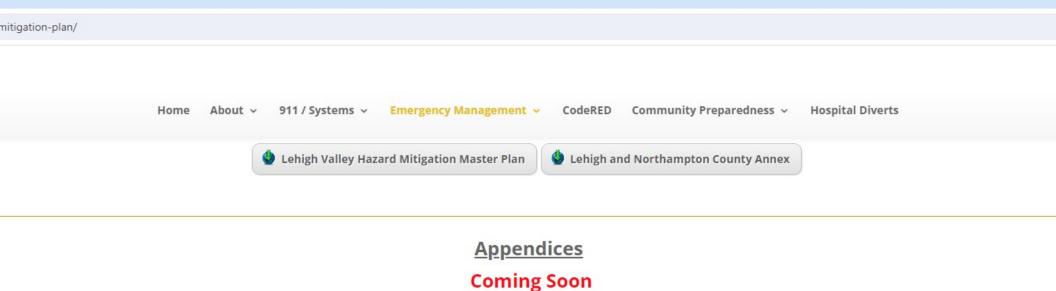
#### Next steps for the 2024 Plan?

Now that the Public Comment period has ended what is next for the 2024 LV Hazard Mitigation Plan? Next Steps are:

- Review by PEMA staff State review may take 1 2 weeks. Once reviewed & approved by PEMA the next step is....
- Review by FEMA Region III staff Federal review may take 6 8 weeks. Once reviewed & approved by FEMA the next step is...
- Municipal level adoption. Once the first of the sixty-two (62) municipalities officially adopts the Plan the Plan then is "in place" till the next review slated for spring 2029. **NOTE:** a participating municipality MUST adopt the Plan locally within one (1) year from the first municipal adoption to stay active and eligible for the 5 years.







#### Use drop down bars below to find municipal annexes

#### **Lehigh County Municipal Annexes**



#### Northampton County Municipal Annexes







#### Lehigh County Co-Chair

Kevin McGowan

Community Outreach Manager

Lehigh County Emergency Management Agency 640 W. Hamilton Street, 8th Floor Allentown, PA 18101





#### Northampton County Co-Chair

Thomas E. Guth, Jr.

Hazard Mitigation / Disaster Recovery Manager

Northampton County Emergency Management 100 Gracedale Avenue Nazareth, PA 18064-9278



k (610) 746-3194 x3228











# witt obrien's ambipar® response

2024 LEHIGH VALLEY HAZARD MITIGATION PLAN UPDATE

Public Plan Review Meeting

MARCH 6, 2024

wittobriens.com

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## Hazard Mitigation Planning Overview



## Costly climate: See billion-dollar natural disasters piling up across the US

Janet Loehrke and Dinah Voyles Pulver USA TODAY

Published 6:10 a.m. ET Aug. 21, 2023 | Updated 11:05 a.m. ET Aug. 21, 2023



Extreme rainfall, tornadoes and hail helped set a record pace for \$1 billion natural disasters in the United States through early August, even before

Pew TOPICS PROJECTS FEATURES ABOUT GET INVOLVED

## Every \$1 Invested in Disaster Mitigation Saves \$6

Spending to reduce risk saves lives and creates jobs, key study finds

ARTICLE January 11, 2018 By: Laura Lightbody & Matthew Fuchs Read time: 1 m

Projects: Flood-Prepared Communities

## What is hazard mitigation?



## Why is mitigation important?

#### **FEMA Hazard Mitigation Assistance Family of Grants**



**HMGP** 

**HMGP Post Fire** 

**FMA** 

**BRIC** 

### What are some examples of hazard mitigation?

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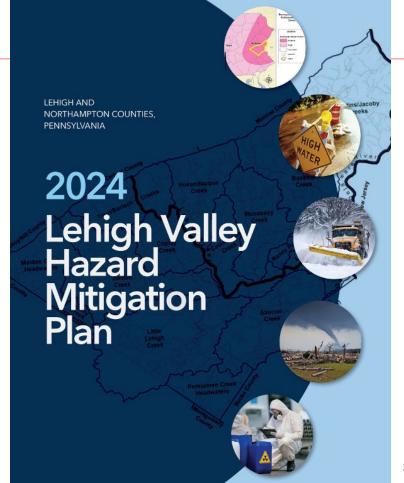
### Hazard Mitigation Planning Overview

The Mitigation Planning Process



### How do I participate?





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### **Profiled Hazards**

#### 13 Natural Hazards and 14 Other Hazards

#### **HUMAN-CAUSED HAZARDS**

- Radon Exposure
- Environmental Hazards / Hazardous Materials Release
- Utility Interruption
- Gas/Liquid Pipelines
- Opioid Addiction
- Urban Fire/Explosion
- Transportation Accidents
- **Building Collapse**
- Civil Disturbance / Mass Gathering
- Dam Failure
- Levee Failure
- Terrorism
- Cyber-Terrorism
- **Nuclear Incidents**



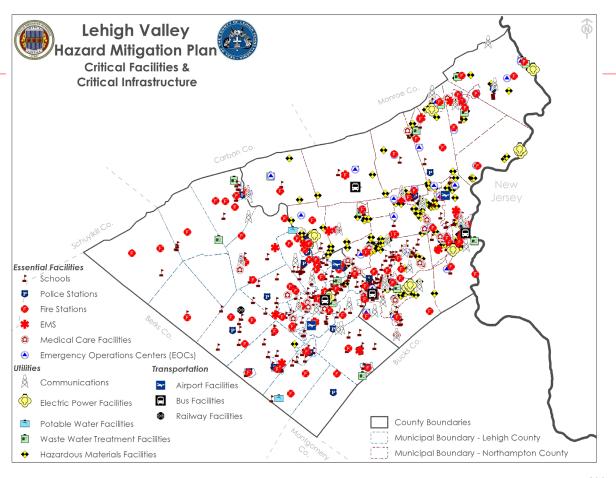
11

### **Community Lifelines**



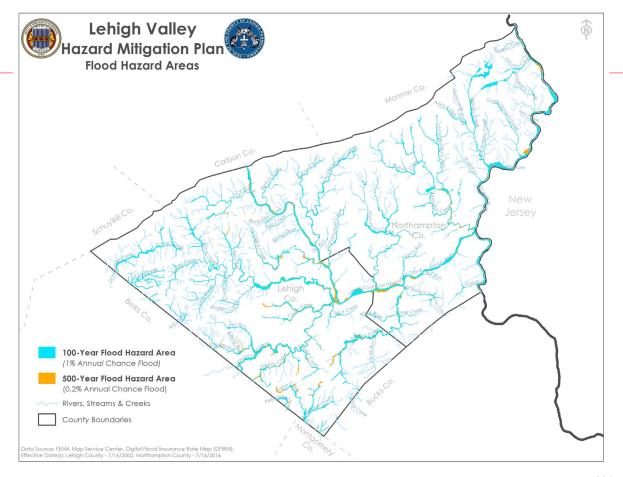


### **Critical Facilities**

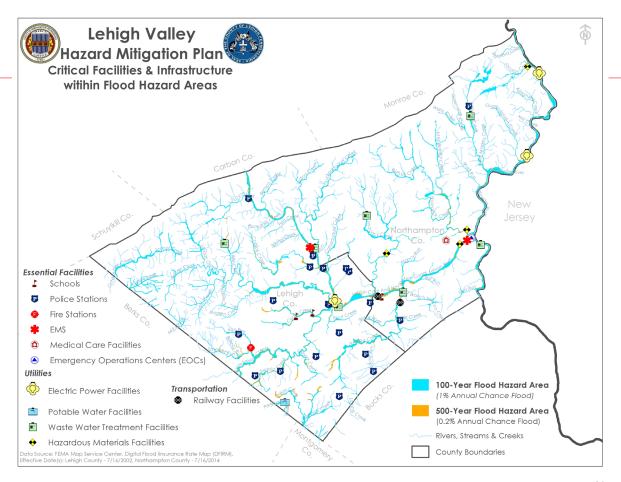




Flood Hazard Areas

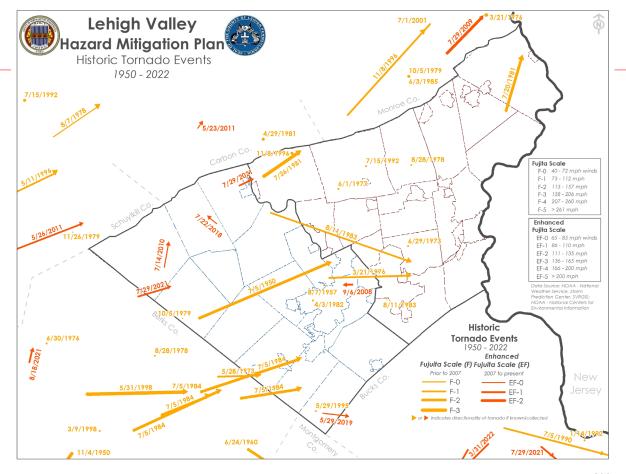


Critical Facilities At Risk

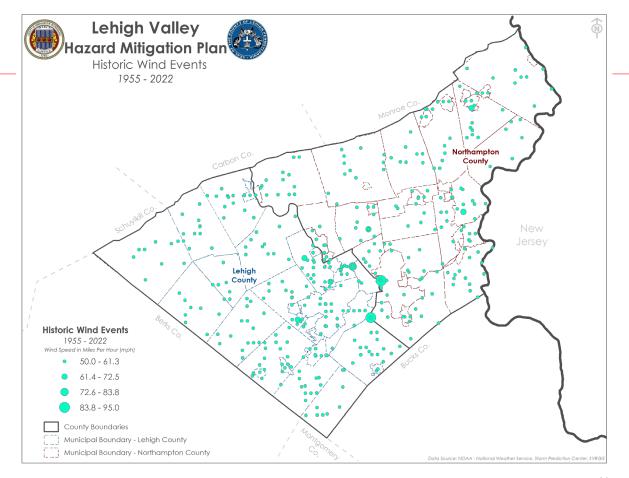




**Tornadoes** 

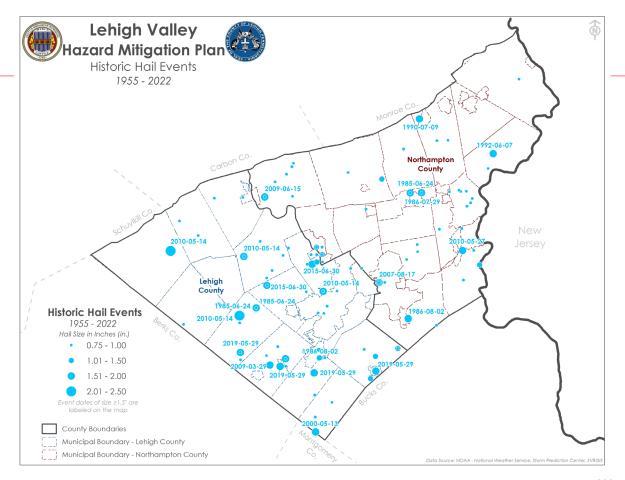


Wind Events

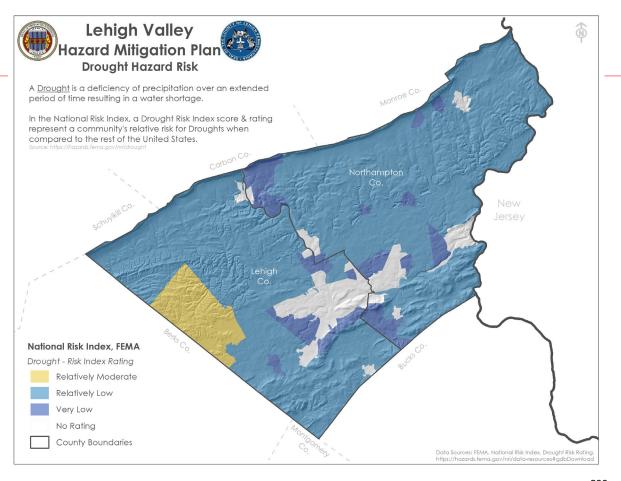




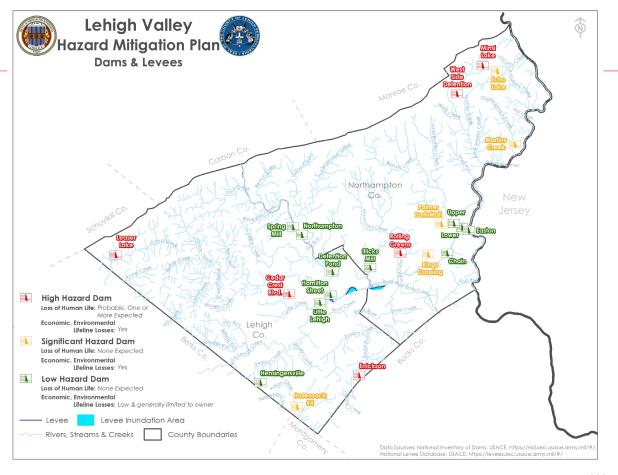
Hail Events



### Drought



### Human-Caused Hazards Dams and Levees





#### A Note on Mitigation Actions

- The Hazard Mitigation Plan identifies potential actions that the community may choose to pursue
- The list functions as a "menu" of options to pursue based on timing, community priorities, available funding, etc.
- More than 1,000 proposed actions are articulated in the draft plan.
- The counties and municipalities are not committing to implementing every action mentioned in the plan.

### Mitigation Action Highlights from the 2024 Plan

- Install backup power solutions at critical facilities
- Implement electrical grid hardening activities
- Harden/strengthen water treatment facilities and county/municipal buildings
- Increase public awareness around disaster risk
- Clear, maintain, and (where necessary) increase the capacity of the stormwater drainage system
- Limit development in the floodplain
- Restore, protect, or increase forests, meadows, and wetlands
- Provide education material to the public regarding disaster risk, emergency alerts, and the importance of flood insurance



### How do I provide feedback?







## WITT O'BRIEN'S ambipar® response

# Thank you for your participation!

For more information, please reach out to:

Thomas E. Guth, Jr.

Hazard Mitigation / Disaster Recovery Manager Northampton County Emergency Management

tguth@ncem-pa.org

Kevin McGowan

Community Outreach Manager

Lehigh County Emergency Management

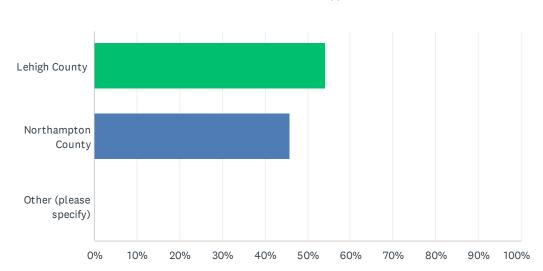
kevinmcgowan@lehighcounty.org



wittobriens.com

### Q1 Which county do you reside in?

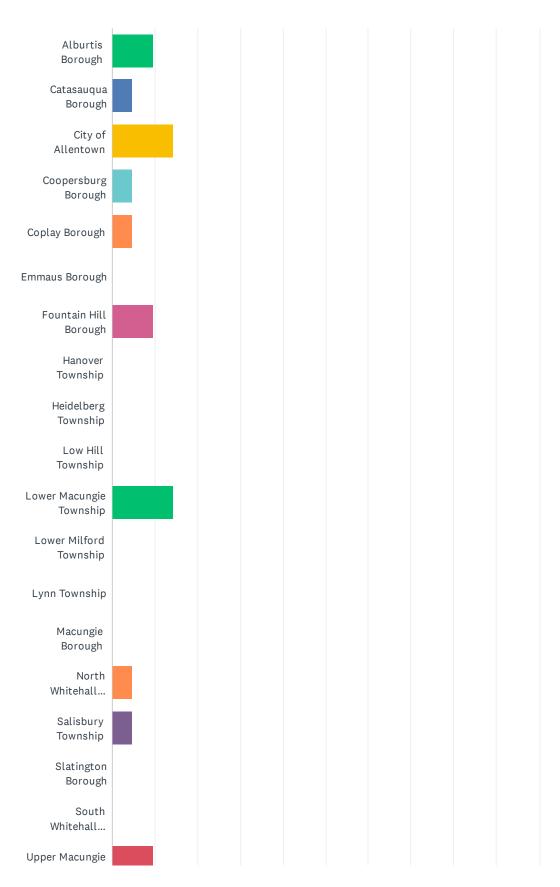
Answered: 37 Skipped: 2



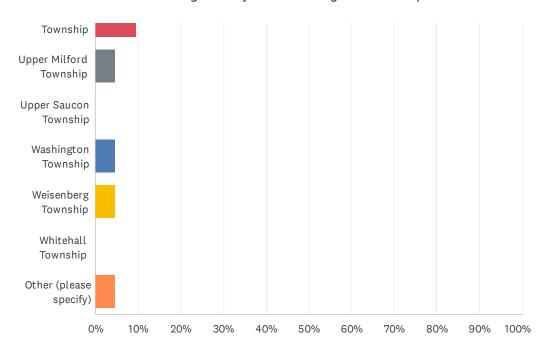
ANSWER CHOICES	RESPONSES	
Lehigh County	54.05%	20
Northampton County	45.95%	17
Other (please specify)	0.00%	0
TOTAL		37

### Q2 Which Lehigh County community do you live in?





#### 2024 Lehigh Valley Hazard Mitigation Plan Update



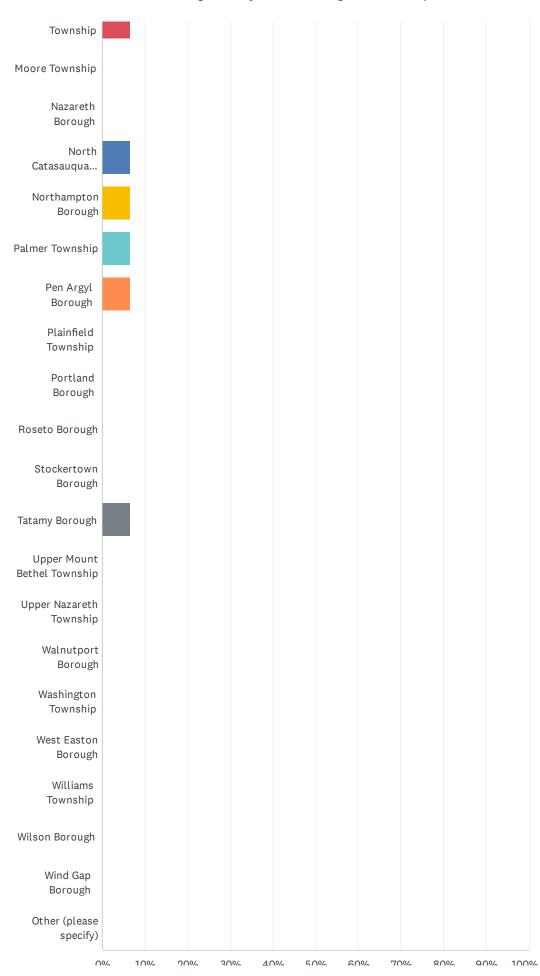
### 2024 Lehigh Valley Hazard Mitigation Plan Update

ANSWER CHOICES	RESPONSES	
Alburtis Borough	9.52%	2
Catasauqua Borough	4.76%	1
City of Allentown	14.29%	3
Coopersburg Borough	4.76%	1
Coplay Borough	4.76%	1
Emmaus Borough	0.00%	0
Fountain Hill Borough	9.52%	2
Hanover Township	0.00%	0
Heidelberg Township	0.00%	0
Low Hill Township	0.00%	0
Lower Macungie Township	14.29%	3
Lower Milford Township	0.00%	0
Lynn Township	0.00%	0
Macungie Borough	0.00%	0
North Whitehall Township	4.76%	1
Salisbury Township	4.76%	1
Slatington Borough	0.00%	0
South Whitehall Township	0.00%	0
Upper Macungie Township	9.52%	2
Upper Milford Township	4.76%	1
Upper Saucon Township	0.00%	0
Washington Township	4.76%	1
Weisenberg Township	4.76%	1
Whitehall Township	0.00%	0
Other (please specify)	4.76%	1
TOTAL		21

### Q3 Which Northampton County community do you live in?







U/0 1U/0 2U/0 3U/0 TU/0 3U/0 0U/0 1U/0 0U/0 3U/0 1UU/

### 2024 Lehigh Valley Hazard Mitigation Plan Update

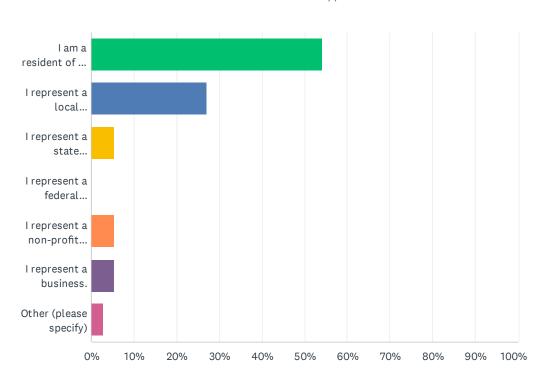
ANSWER CHOICES	RESPONSES	
Allen Township	0.00%	0
Bangor Borough	0.00%	0
Bath Borough	13.33%	2
Bethlehem City	6.67%	1
Bethlehem Township	13.33%	2
Bushkill Township	0.00%	0
Chapman Borough	0.00%	0
East Allen Township	13.33%	2
East Bangor Borough	0.00%	0
Easton City	0.00%	0
Forks Township	6.67%	1
Freemansburg Borough	0.00%	0
Glendon Borough	0.00%	0
Hanover Township	0.00%	0
Hellertown Borough	0.00%	0
Lehigh Township	0.00%	0
Lower Mount Bethel Township	0.00%	0
Lower Nazareth Township	6.67%	1
Lower Saucon Township	6.67%	1
Moore Township	0.00%	0
Nazareth Borough	0.00%	0
North Catasauqua Borough	6.67%	1
Northampton Borough	6.67%	1
Palmer Township	6.67%	1
Pen Argyl Borough	6.67%	1
Plainfield Township	0.00%	0
Portland Borough	0.00%	0
Roseto Borough	0.00%	0
Stockertown Borough	0.00%	0
Tatamy Borough	6.67%	1
Upper Mount Bethel Township	0.00%	0
Upper Nazareth Township	0.00%	0

### 2024 Lehigh Valley Hazard Mitigation Plan Update

Walnutport Borough Washington Township	0.00% 	0 0
West Easton Borough	0.00%	0
Williams Township	0.00%	0
Wilson Borough	0.00%	0
Wind Gap Borough	0.00%	0
Other (please specify)	0.00%	0
TOTAL		15

### Q4 Which of these statements best applies to you?

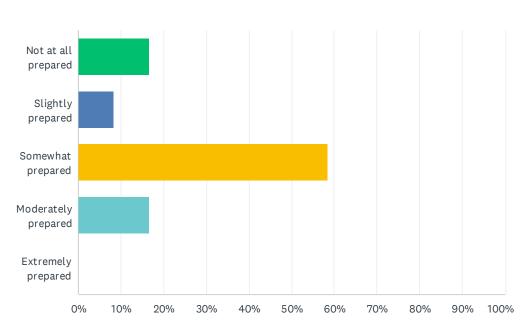




ANSWER CHOICES	RESPONSES	
I am a resident of the Lehigh Valley.	54.05%	20
I represent a local government entity.	27.03%	10
I represent a state government entity.	5.41%	2
I represent a federal government entity.	0.00%	0
I represent a non-profit organization.	5.41%	2
I represent a business.	5.41%	2
Other (please specify)	2.70%	1
TOTAL		37

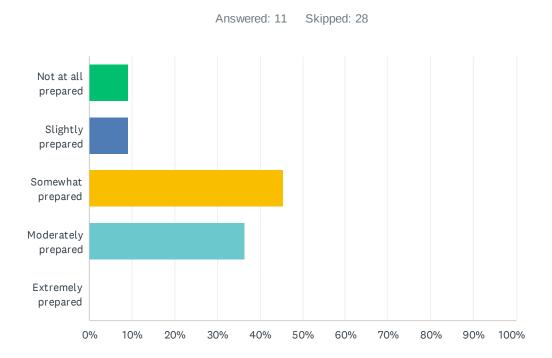
# Q5 Prior to reviewing the 2024 Lehigh Valley Hazard Mitigation Plan Update, how well prepared do you think your community was for a natural disaster?





ANSWER CHOICES	RESPONSES	
Not at all prepared	16.67%	2
Slightly prepared	8.33%	1
Somewhat prepared	58.33%	7
Moderately prepared	16.67%	2
Extremely prepared	0.00%	0
TOTAL		12

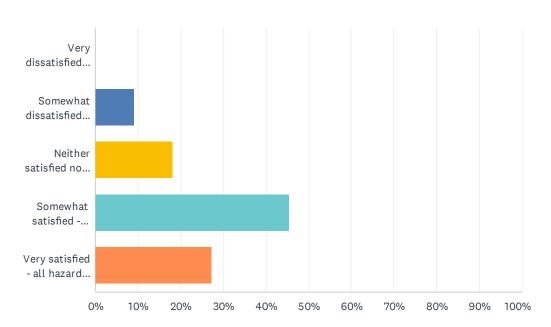
# Q6 After reading the 2024 Lehigh Valley Hazard Mitigation Plan Update, how well prepared do you think your community will be for a natural disaster?



ANSWER CHOICES	RESPONSES	
Not at all prepared	9.09%	1
Slightly prepared	9.09%	1
Somewhat prepared	45.45%	5
Moderately prepared	36.36%	4
Extremely prepared	0.00%	0
TOTAL		11

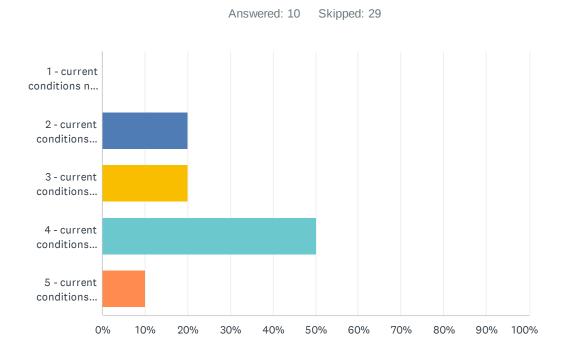
### Q7 After looking at the 2024 Lehigh Valley Hazard Mitigation Plan Update, how satisfied are you with the hazards addressed by the plan?





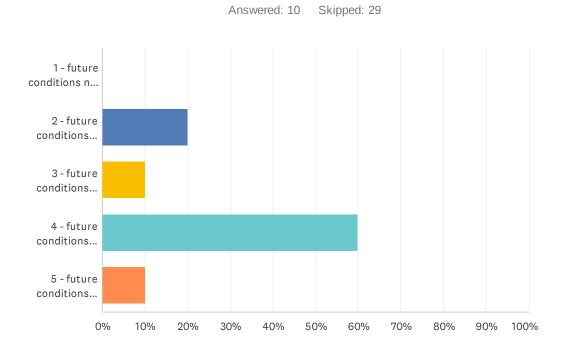
ANSWER CHOICES	RESPONSES	
Very dissatisfied - many hazards missing or not explained	0.00%	0
Somewhat dissatisfied - some hazards missing or not fully explained	9.09%	1
Neither satisfied nor dissatisfied - most hazards present but not explained satisfactorily	18.18%	2
Somewhat satisfied - most hazards present and explained	45.45%	5
Very satisfied - all hazards included and well explained	27.27%	3
TOTAL		11

# Q8 On a scale of 1 - 5, how satisfied are you that the 2024 Lehigh Valley Hazard Mitigation Plan Update captures the current status of the community, risks, and needs?



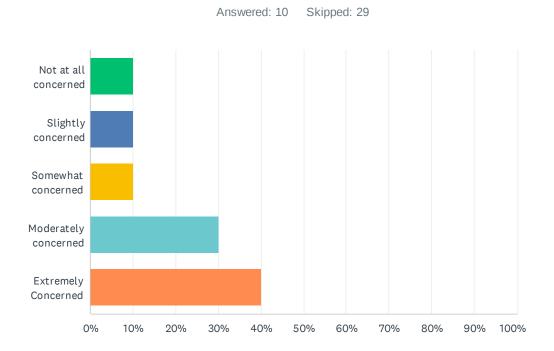
ANSWER CHOICES	RESPONSES	
1 - current conditions not accounted for at all	0.00%	0
2 - current conditions mentioned but not accounted for	20.00%	2
3 - current conditions somewhat accounted for	20.00%	2
4 - current conditions mostly accounted for	50.00%	5
5 - current conditions fully accounted for	10.00%	1
TOTAL		10

### Q9 On a scale of 1 - 5, how satisfied are you that the 2024 Lehigh Valley Hazard Mitigation Plan Update projects future conditions?



ANSWER CHOICES	RESPONSES	
1 - future conditions not accounted for at all	0.00%	0
2 - future conditions mentioned but not accounted for	20.00%	2
3 - future conditions somewhat accounted for	10.00%	1
4 - future conditions mostly accounted for	60.00%	6
5 - future conditions fully accounted for	10.00%	1
TOTAL		10

### Q10 How concerned are you about the impact of climate change on future conditions?



ANSWER CHOICES	RESPONSES	
Not at all concerned	10.00%	1
Slightly concerned	10.00%	1
Somewhat concerned	10.00%	1
Moderately concerned	30.00%	3
Extremely Concerned	40.00%	4
TOTAL		10

### Q11 Do you have any feedback on the 2024 Lehigh Valley Hazard Mitigation Plan Update you would like to share? Please describe.

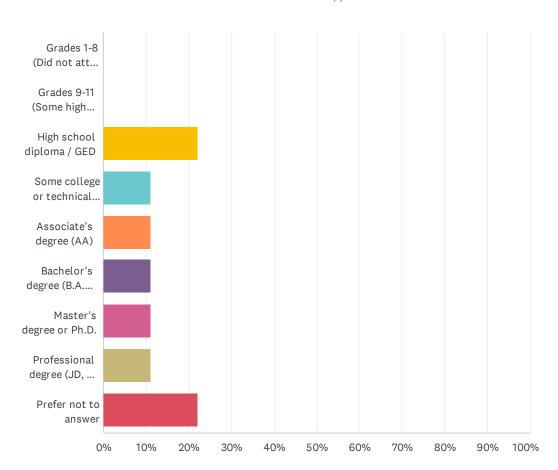
Answered: 2 Skipped: 37

Q12 Is there anything you would like to see included/discussed in the next update to the Lehigh Valley Hazard Mitigation Plan? Please describe.

Answered: 2 Skipped: 37

### Q13 What is the highest level of education you have attained?

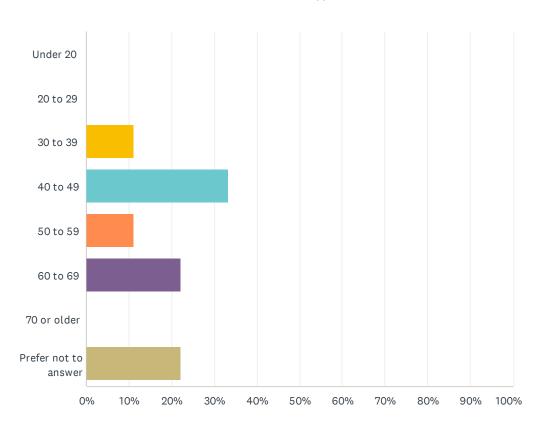




ANSWER CHOICES	RESPONSES	
Grades 1-8 (Did not attend high school)	0.00%	0
Grades 9-11 (Some high school)	0.00%	0
High school diploma / GED	22.22%	2
Some college or technical school	11.11%	1
Associate's degree (AA)	11.11%	1
Bachelor's degree (B.A. or B.S.)	11.11%	1
Master's degree or Ph.D.	11.11%	1
Professional degree (JD, MD, MBA)	11.11%	1
Prefer not to answer	22.22%	2
TOTAL		9

### Q14 What is your age?

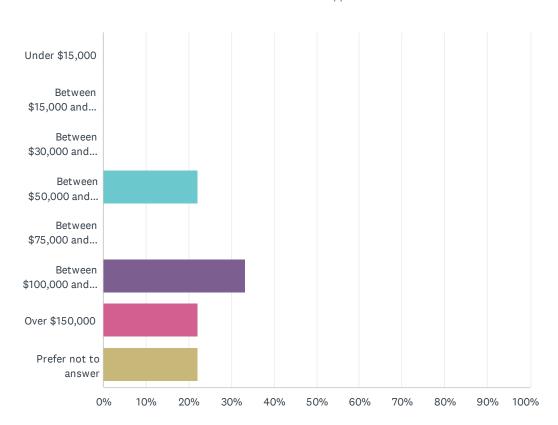
Answered: 9 Skipped: 30



ANSWER CHOICES	RESPONSES	
Under 20	0.00%	0
20 to 29	0.00%	0
30 to 39	11.11%	1
40 to 49	33.33%	3
50 to 59	11.11%	1
60 to 69	22.22%	2
70 or older	0.00%	0
Prefer not to answer	22.22%	2
TOTAL		9

### Q15 What is your average annual household income? (Before taxes)

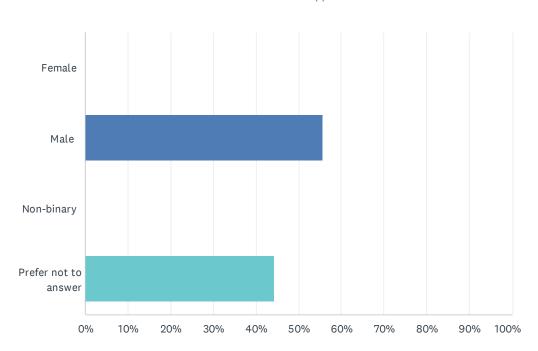




ANSWER CHOICES	RESPONSES	
Under \$15,000	0.00%	0
Between \$15,000 and \$29,999	0.00%	0
Between \$30,000 and \$49,999	0.00%	0
Between \$50,000 and \$74,999	22.22%	2
Between \$75,000 and \$99,999	0.00%	0
Between \$100,000 and \$149,999	33.33%	3
Over \$150,000	22.22%	2
Prefer not to answer	22.22%	2
TOTAL		9

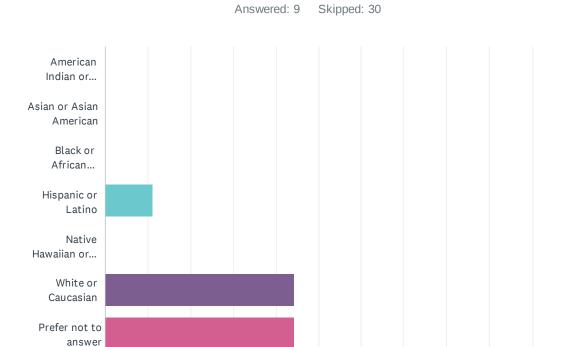
### Q16 How would you describe your gender?





ANSWER CHOICES	RESPONSES	
Female	0.00%	0
Male	55.56%	5
Non-binary	0.00%	0
Prefer not to answer	44.44%	4
TOTAL		9

### Q17 How would you describe your race? You may select more than one.



0%

10%

20%

30%

40%

50%

60%

70%

80%

90% 100%

ANSWER CHOICES	RESPONSES	
American Indian or Alaska Native	0.00%	0
Asian or Asian American	0.00%	0
Black or African American	0.00%	0
Hispanic or Latino	11.11%	1
Native Hawaiian or other Pacific Islander	0.00%	0
White or Caucasian	44.44%	4
Prefer not to answer	44.44%	4
Total Respondents: 9		

## Region 3: Community Capability Assessment Worksheet

The capability assessment is a key part of your local mitigation planning process. It helps your community find and assess the resources it needs to reduce risk. Capability assessment findings will help you inform how you reduce risk, meet planning requirements, pinpoint specific resource needs and gaps, and support proactive planning to speed up recovery efforts.

### **Getting Started**

Use this worksheet to assess your community's capabilities in terms of hazard mitigation and risk reduction. This evaluation should help you see where your capabilities are strongest. It will also point out any gaps and areas for improvement.

#### **Types of Capabilities**

- Planning and Regulatory: Planning and regulatory capabilities are plans, policies, codes and ordinances that
  prevent and reduce the impacts of hazards. These tools can guide development and manage growth in your
  community.
- 2. **Administrative and Technical:** Administrative and technical capabilities include staff and their skills and tools that can help carry out mitigation actions. These may be local staff and departments, as well as academic partners, regional planning and nonprofit and private organizations.
- 3. **Financial:** Financial capabilities include access to or eligibility to use funding resources for hazard mitigation. Think about state and federal funding programs, private and nonprofit resources, and internal funding sources.
- 4. **Education and Outreach:** Education and outreach capabilities include programs and methods that could be used to carry out mitigation actions and share hazard-related information. These could include training sessions or awareness campaigns that build capacity.

### **Connecting Capabilities to the Disaster Recovery Timeline**

This worksheet uses the tags below to show when each capability tends to come into play during the disaster recovery timeline. You can change how each capability is tagged to reflect conditions in your community.

Phase	Timeline	Description	Symbol
Preparedness	Ongoing	Laying groundwork for recovery in case of an event.	P
Response	Days	Taking fast action to make sure the community is okay.	R
Intermediate Recovery	Weeks - Months	Short term response to find immediate solutions.	IR
Long-term Recovery	Months - Years	Focused on how to build back better for the future.	LR

### Worksheet

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Planning and Regulatory	P R IR LR	Yes or No	<ul> <li>If you do <u>not</u> have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Can you use it to make your community more resilient to disasters?</li> <li>Does it reflect current standards and best practices? If not, what are the barriers to updating it?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> </ul>
Floodplain Management Regulations These are rules to ensure communities take flood hazards into account in building and land use. For communities taking part in the National Flood Insurance Program (NFIP), these must meet or exceed the minimum NFIP requirements.	P IR		None in place. Barriers: Funding, staffing, and technical experience.
Building Codes These are rules that specify standards for built structures. Having higher standards in local building codes can help reduce risk.	P LR		In place. Adopted, 1998.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Disaster Recovery Plan  This identifies the tools, resources and governance that communities may need after a disaster to ensure an expedited recovery.	P LR		In place. Adopted, 2011.
Substantial Damage Management Plan This is a regulatory requirement to assess potential damage to buildings; look at how to mitigate the potential for damage to those buildings; and lay out the strategy to address damage after any hazard event.	P LR		None in place. Barriers: Funding, staffing, and technical experience.
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Administrative and Technical	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Do departments have enough staff?</li> <li>Do staff members understand their post-disaster roles and duties?</li> <li>Are staff well-trained?</li> <li>Are there onboarding and training materials for new staff members?</li> <li>How can capabilities be improved to further reduce risk?</li> </ul> </li> </ul>
Building Inspectors They administer and enforce building codes in a jurisdiction.	P R IR		In place. BARRY ISETT & associates INC
Floodplain Manager They carry out the local floodplain management regulations and make sure the community complies with minimum NFIP standards.	P R IR		In place. BARRY ISETT & associates INC
Emergency Manager They prepare and carry out plans and procedures for responding to natural disasters and emergencies.	P R LR		EMC is a volunteer.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Geographic Information Systems (GIS) Specialist They provide the ability to access and analyze geospatial data that may affect planning efforts.	IR LR		In place. Colliers Engineering and Design, Inc.
Grant Administrator and/or Writer  They identify grant opportunities, prepare grant applications, and work to meet requirements for secured grants.	IR LR		In place. Bradford Flynn, Borough Manager.
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Financial	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the funding resource in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Could it be used to fund future post-disaster activities?</li> <li>How does the capability support more resilient rebuilding efforts? What can be done to improve the speed, ease and affordability of these rebuilding efforts?</li> </ul> </li> </ul>
FEMA Hazard Mitigation Grant Program This offers post- disaster funding for facilities. This is capped funding that is competitive across the state. *406 Mitigation only applies to damaged facilities	IR LR		None in place. Barriers: Funding, staffing and technical experience
FEMA Public Assistance This offers post- disaster funding for damaged facilities. There is no cap on this funding; it is non-competitive.	R IR		None received.
State Funding Programs These offer funding at the state level to provide mitigation and post-disaster support.	P (R		■ None received.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Local Funding Sources These offer funds at the local level through programs such as bonds, impact fees, etc.	P LR		\$440,000 in outstanding bonds.
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Education and Outreach	P R IR LR	Yes or No	<ul> <li>If you do <u>not</u> have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the program/method in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Can it be used to carry out future post-disaster activities?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> <li>For information platforms:         <ul> <li>If you have used the platform in the past, did you find any areas to improve on?</li> <li>Do you have the resources to update the information right after a disaster?</li> </ul> </li> </ul>
Websites These are an outlet to post information online.	P R IR		■ In place. Barriers: Funding, staffing, and technical experience
Newsletters These are an outlet for periodic mailings.	P R IR		In place. Published twice a year.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Permits and Forms These are permits and forms that address the Special Flood Hazard Area.	R IR		In place. Zoning and building applications, Borough website, and OpenGov portal.
Handouts These are handouts to share at a central location so community members can learn information.	R IR		In place.
Trained Outreach Staff They are resources to help the public be more confident with mitigation, recovery and response initiatives.	P LR		None in place. Barriers: Funding, staffing, and technical experience
Placeholder for additional capability			

## Region 3: Community Capability Assessment Worksheet

The capability assessment is a key part of your local mitigation planning process. It helps your community find and assess the resources it needs to reduce risk. Capability assessment findings will help you inform how you reduce risk, meet planning requirements, pinpoint specific resource needs and gaps, and support proactive planning to speed up recovery efforts.

### **Getting Started**

Use this worksheet to assess your community's capabilities in terms of hazard mitigation and risk reduction. This evaluation should help you see where your capabilities are strongest. It will also point out any gaps and areas for improvement.

#### **Types of Capabilities**

- Planning and Regulatory: Planning and regulatory capabilities are plans, policies, codes and ordinances that
  prevent and reduce the impacts of hazards. These tools can guide development and manage growth in your
  community.
- 2. **Administrative and Technical:** Administrative and technical capabilities include staff and their skills and tools that can help carry out mitigation actions. These may be local staff and departments, as well as academic partners, regional planning and nonprofit and private organizations.
- 3. **Financial:** Financial capabilities include access to or eligibility to use funding resources for hazard mitigation. Think about state and federal funding programs, private and nonprofit resources, and internal funding sources.
- 4. **Education and Outreach:** Education and outreach capabilities include programs and methods that could be used to carry out mitigation actions and share hazard-related information. These could include training sessions or awareness campaigns that build capacity.

### **Connecting Capabilities to the Disaster Recovery Timeline**

This worksheet uses the tags below to show when each capability tends to come into play during the disaster recovery timeline. You can change how each capability is tagged to reflect conditions in your community.

Phase	Timeline	Description	Symbol
Preparedness	Ongoing	Laying groundwork for recovery in case of an event.	P
Response	Days	Taking fast action to make sure the community is okay.	R
Intermediate Recovery	Weeks - Months	Short term response to find immediate solutions.	IR
Long-term Recovery	Months - Years	Focused on how to build back better for the future.	<b>□R</b>

### Worksheet

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Planning and Regulatory	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Can you use it to make your community more resilient to disasters?</li> <li>Does it reflect current standards and best practices? If not, what are the barriers to updating it?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> </ul>
Floodplain Management Regulations These are rules to ensure communities take flood hazards into account in building and land use. For communities taking part in the National Flood Insurance Program (NFIP), these must meet or exceed the minimum NFIP requirements.	P LR	YES	<ul> <li>Currently 59 active NFIP policies (through 3/7/2022) in community.</li> <li>Stormwater Management Committee</li> <li>Stormwater Fee used for MS4 PRP and to mitigate current flooding issues.</li> </ul>

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Building Codes These are rules that specify standards for built structures. Having higher standards in local building codes can help reduce risk.	P (R	YES	<ul> <li>Adopted 2018 International Building Codes.</li> <li>Adopted 2018 International Property Maintenance Code.</li> <li>Adopted 2009 International Fire Code.</li> <li>Plan to adopt a more current edition of IFC.</li> </ul>
Disaster Recovery Plan This identifies the tools, resources and governance that communities may need after a disaster to ensure an expedited recovery.	P LR	NO	<ul> <li>Continue to work with County and State to improve resources/tools to community.</li> <li>Challenge: Funding and staffing.</li> </ul>
Substantial Damage Management Plan This is a regulatory requirement to assess potential damage to buildings; look at how to mitigate the potential for damage to those buildings; and lay out the strategy to address damage after any hazard event.	P LR	NO	<ul> <li>Continue to work with County and State to improve resources/tools.</li> <li>Challenge: Funding and staffing.</li> </ul>

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Placeholder for additional capability			
Administrative and Technical	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Do departments have enough staff?</li> <li>Do staff members understand their post-disaster roles and duties?</li> <li>Are staff well-trained?</li> <li>Are there onboarding and training materials for new staff members?</li> <li>How can capabilities be improved to further reduce risk?</li> </ul> </li> </ul>
Building Inspectors They administer and enforce building codes in a jurisdiction.	P R IR	YES	<ul> <li>Have certified building inspectors on staff.</li> <li>Challenge: understaffed due to high volume of new commercial and residential developments.</li> <li>Agreement with third party agency for overflow and all electrical plan review/inspections.</li> </ul>

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Floodplain Manager They carry out the local floodplain management regulations and make sure the community complies with minimum NFIP standards.	P R IR	YES	Have CFPM on staff.
Emergency Manager They prepare and carry out plans and procedures for responding to natural disasters and emergencies.	P R LR	YES	Have PEMA Professional certified EMC on staff.
Geographic Information Systems (GIS) Specialist They provide the ability to access and analyze geospatial data that may affect planning efforts.	IR LR	YES	<ul> <li>Third party who handles creation and maintenance.</li> <li>Staff has continual access to utilize GIS.</li> </ul>

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Grant Administrator and/or Writer They identify grant opportunities, prepare grant applications, and work to meet requirements for secured grants.	IR IR	YES	On staff.
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Financial	P R IR LR	Yes or No	<ul> <li>If you do <u>not</u> have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the funding resource in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Could it be used to fund future post-disaster activities?</li> <li>How does the capability support more resilient rebuilding efforts? What can be done to improve the speed, ease and affordability of these rebuilding efforts?</li> </ul> </li> </ul>
FEMA Hazard Mitigation Grant Program This offers post- disaster funding for facilities. This is capped funding that is competitive across the state. *406 Mitigation only applies to damaged facilities	IR LR	YES	• In BRIC grant.
FEMA Public Assistance This offers post- disaster funding for damaged facilities. There is no cap on this funding; it is non-competitive.	R IR	YES	FEMA Public Assistance for DR-4506-Pennsylvania (COVID-19 Declaration)

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
State Funding Programs These offer funding at the state level to provide mitigation and post-disaster support.	P (R	NO	
Local Funding Sources These offer funds at the local level through programs such as bonds, impact fees, etc.	P (R	NO	
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Education and Outreach	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the program/method in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Can it be used to carry out future post-disaster activities?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> <li>For information platforms:         <ul> <li>If you have used the platform in the past, did you find any areas to improve on?</li> <li>Do you have the resources to update the information right after a disaster?</li> </ul> </li> </ul>
Websites These are an outlet to post information online.	P R IR	YES	Township website.
Newsletters These are an outlet for periodic mailings.	P R IR	YES	Mailed and Township website.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Permits and Forms These are permits and forms that address the Special Flood Hazard Area.	R IR	YES	Included on Building and Zoning permit applications-self reported.
Handouts These are handouts to share at a central location so community members can learn information.	R IR	YES	Township and County provided.
Trained Outreach Staff They are resources to help the public be more confident with mitigation, recovery and response initiatives.	P LR	YES	<ul> <li>MS4.</li> <li>Public meeting on Stormwater Management and Mitigation projects.</li> </ul>

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Placeholder for additional capability			

# Region 3: Community Capability Assessment Worksheet

The capability assessment is a key part of your local mitigation planning process. It helps your community find and assess the resources it needs to reduce risk. Capability assessment findings will help you inform how you reduce risk, meet planning requirements, pinpoint specific resource needs and gaps, and support proactive planning to speed up recovery efforts.

### **Getting Started**

Use this worksheet to assess your community's capabilities in terms of hazard mitigation and risk reduction. This evaluation should help you see where your capabilities are strongest. It will also point out any gaps and areas for improvement.

### Types of Capabilities

- 1. **Planning and Regulatory:** Planning and regulatory capabilities are plans, policies, codes and ordinances that prevent and reduce the impacts of hazards. These tools can guide development and manage growth in your community.
- 2. **Administrative and Technical:** Administrative and technical capabilities include staff and their skills and tools that can help carry out mitigation actions. These may be local staff and departments, as well as academic partners, regional planning and nonprofit and private organizations.
- 3. **Financial:** Financial capabilities include access to or eligibility to use funding resources for hazard mitigation. Think about state and federal funding programs, private and nonprofit resources, and internal funding sources.
- 4. **Education and Outreach:** Education and outreach capabilities include programs and methods that could be used to carry out mitigation actions and share hazard-related information. These could include training sessions or awareness campaigns that build capacity.

### Connecting Capabilities to the Disaster Recovery Timeline

This worksheet uses the tags below to show when each capability tends to come into play during the disaster recovery timeline. You can change how each capability is tagged to reflect conditions in your community.

Phase	Timeline	Description	Symbol
Preparedness	Ongoing	Laying groundwork for recovery in case of an event.	(P)
Response	Days	Taking fast action to make sure the community is okay.	(R)
Intermediate Recovery	Weeks - Months	Short term response to find immediate solutions.	(IR)
Long-term Recovery	Months - Years	Focused on how to build back better for the future.	(LR)



### Worksheet

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Planning and Regulatory	P R IR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Can you use it to make your community more resilient to disasters?</li> <li>Does it reflect current standards and best practices? If not, what are the barriers to updating it?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> </ul>
Floodplain Management Regulations These are rules to ensure communities take flood hazards into account in building and land use. For communities taking part in the National Flood Insurance Program (NFIP), these must meet or exceed the minimum NFIP requirements.	P	7	JUST UPDATED ORDINANCE  CONTINUE IMPROVING FACILITES  RESIDENTS  RESIDENTS
Building Codes These are rules that specify standards for built structures. Having higher standards in local building codes can help reduce risk.	P (R)	Y	. WE USE A 3RD PARTY (BARRY ISET)  - ALTHORIGH IN PLACE, RENTAL  INSPECTIONS ARE DIFFICULT TO  DO WELL

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Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Administrative and Technical		Yes or No	If you do <u>not</u> have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?
	(P)		If you have this capability:
	P	1	<ul><li>Do departments have enough staff?</li></ul>
	IR		<ul> <li>Do staff members understand their post-disaster roles and duties?</li> </ul>
	(R)		<ul><li>Are staff well-trained?</li></ul>
			<ul> <li>Are there onboarding and training materials for new staff members?</li> </ul>
			<ul> <li>How can capabilities be improved to further reduce risk?</li> </ul>
Building Inspectors	P		- 3 RO PARTY - BARRY ISETT
They administer and enforce building codes in a jurisdiction.	R	4	
Mark Section			
Floodplain Manager			
They carry out the local floodplain	P R IR	Y	BORONGH ENGINEER - Mc CARTHY - BORONGH MANAGER - PUBLIC WORKS STAFF
management regulations and make sure the			- BORONGH MANAGER
community complies with minimum NFIP standards.			- PUBLIC WORKS STAFF
Emergency Manager			- APPOINTED.
They prepare and carry out plans and procedures for	P	4	NOT OVERLY ACTIVE OR COMMUNICATIVE
responding to natural disasters and emergencies.	(LR)		- USE COUNTY OR POLICE/FIRE LOCALL

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Financial	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the funding resource in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Could it be used to fund future post-disaster activities?</li> <li>How does the capability support more resilient rebuilding efforts?</li></ul></li></ul>
FEMA Hazard Mitigation Grant Program This offers post- disaster funding for facilities. This is capped funding that is competitive across the state. *406 Mitigation only applies to damaged facilities	(R)	4/~	NOT ACTIVE, HOWEVER WE HAVE USED IN THE PAST S, WILL APPLY POST-NEXT DISASTER COVID RELIEF WAS LAST FEDERAL AWARD.
FEMA Public Assistance This offers post- disaster funding for damaged facilities. There is no cap on this funding; it is non-competitive.	R IR	M/N	NO RELENT APPLICATION, BUT FAMILIAR W/ PROCESS
State Funding Programs These offer funding at the state level to provide mitigation and post-disaster support.	P	4/2	UPPATED INFRASTRUCTURE & POLICE / FIRE IMPROVEMENTS,  BUT NOT DISASTER MITIGATION  SPECIFICALLY

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Education and Outreach	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the program/method in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Can it be used to carry out future post-disaster activities?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> <li>For information platforms:         <ul> <li>If you have used the platform in the past, did you find any areas to improve on?</li> <li>Do you have the resources to update the information right after a disaster?</li> </ul> </li> </ul>
Websites These are an outlet to post information online.	P R IR	У	WEBSITE, SOLIAL MEDIA, CALL-ALL SYSTEM - CONLD ALL BE IMPROVED FUNCTIONALITY / CROSS PLATFORM
Newsletters These are an outlet for periodic mailings.	P R IR	N	NO SPECIFIC NEWSLETTEIL.  HOWEVER WE DO SEND INFORMATION  ON THE BACK OF UTILITY BILLS,  YX PER YEAR.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Disaster Recovery Plan This identifies the tools, resources and governance that communities may need after a disaster to ensure an expedited recovery.	P	4/2	JUST NEED BETTEIL CORDINATION  W/ POLICE, FIRE, EMA
Substantial Damage Management Plan This is a regulatory requirement to assess potential damage to buildings; look at how to mitigate the potential for damage to those buildings; and lay out the strategy to address damage after any hazard event.	P LR	Y	WOULD USE 3RD PARTY  BUILDING INSPECTOR OR  INSURANCE ADJUSTER  PUBLIC WORKS CONSTANTLY  MONITORS INFRASTRUCTURE  4 PUBLIC BUILDINGS.
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Geographic Information Systems (GIS) Specialist They provide the ability to access and analyze geospatial data that may affect planning efforts.	IR LR	4	Public WORKS HAS GIS CAPABILITIES  FOR WATER / SEWER / STORM  ROADWAYS / PUBLIC LAND.  - COULD ADD ADDITIONAL INFO IN SYSTEM
Grant Administrator and/or Writer They identify grant opportunities, prepare grant applications, and work to meet requirements for secured grants.	(R)	4	MANAGER & COMP TEAM  ANALYZE & APPLY FOR GRANTS  FIRE DEPT USES A PAID GRANT WRITER
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Local Funding Sources These offer funds at the local level through programs such as bonds, impact fees, etc.	P	Y	GENERAL FUND USED FOR GARS, INSURANCE COVERAGES.
Placeholder for additional capability			
are salidament davis			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Permits and Forms These are permits and forms that address the Special Flood Hazard Area.	R		- ZONING REQUIRES CERTAIN SETBACKS & RULES FROM STREAMS S FLOOD AREAS - STORW MATER REVIEW FOR NEW DEVELOPMENTS
Handouts These are handouts to share at a central location so community members can learn information.	R	Y/N	HAND ONTS AT RECEPTION WINDOW NEED UPDATED INFO.
Trained Outreach Staff They are resources to help the public be more confident with mitigation, recovery and response initiatives.	P LR	N	NOTHING SPECIFIC, HOWEVER,  COMP TEAM IS DEVELOPING  NEW GUALS & PUBLIC INPUT.
Placeholder for additional capability			

The capability assessment is a key part of your local mitigation planning process. It helps your community find and assess the resources it needs to reduce risk. Capability assessment findings will help you inform how you reduce risk, meet planning requirements, pinpoint specific resource needs and gaps, and support proactive planning to speed up recovery efforts.

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  prevent and reduce the impacts of hazards. These tools can guide development and manage growth in your
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- Education and Outreach: Education and outreach capabilities include programs and methods that could be
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  or awareness campaigns that build capacity.

### **Connecting Capabilities to the Disaster Recovery Timeline**

Phase	Timeline	Description	Symbol
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Long-term Recovery	Months - Years	Focused on how to build back better for the future.	LR

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Planning and Regulatory	P R IR LR	Yes or No	<ul> <li>If you do <u>not</u> have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Can you use it to make your community more resilient to disasters?</li> <li>Does it reflect current standards and best practices? If not, what are the barriers to updating it?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> </ul>
Floodplain Management Regulations These are rules to ensure communities take flood hazards into account in building and land use. For communities taking part in the National Flood Insurance Program (NFIP), these must meet or exceed the minimum NFIP requirements.	P R	Yes	
Building Codes These are rules that specify standards for built structures. Having higher standards in local building codes can help reduce risk.	P (R	Yes	

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Disaster Recovery Plan  This identifies the tools, resources and governance that communities may need after a disaster to ensure an expedited recovery.	P LR	Yes	
Substantial Damage Management Plan This is a regulatory requirement to assess potential damage to buildings; look at how to mitigate the potential for damage to those buildings; and lay out the strategy to address damage after any hazard event.	P (R	No	Need funding to prepare plan
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Administrative and Technical	P R IR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Do departments have enough staff?</li> <li>Do staff members understand their post-disaster roles and duties?</li> <li>Are staff well-trained?</li> <li>Are there onboarding and training materials for new staff members?</li> <li>How can capabilities be improved to further reduce risk?</li> </ul> </li> </ul>
Building Inspectors They administer and enforce building codes in a jurisdiction.	P R IR	Yes	
Floodplain Manager They carry out the local floodplain management regulations and make sure the community complies with minimum NFIP standards.	P R IR	Yes	
Emergency Manager They prepare and carry out plans and procedures for responding to natural disasters and emergencies.	P R LR	Yes	

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Geographic Information Systems (GIS) Specialist They provide the ability to access and analyze geospatial data that may affect planning efforts.	IR LR	Yes	
Grant Administrator and/or Writer  They identify grant opportunities, prepare grant applications, and work to meet requirements for secured grants.	IR LR	Yes	
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Financial	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the funding resource in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Could it be used to fund future post-disaster activities?</li> <li>How does the capability support more resilient rebuilding efforts? What can be done to improve the speed, ease and affordability of these rebuilding efforts?</li> </ul> </li> </ul>
FEMA Hazard Mitigation Grant Program This offers post- disaster funding for facilities. This is capped funding that is competitive across the state. *406 Mitigation only applies to damaged facilities	IR LR	No	No open grants. Previously used for flood mitigation planning
FEMA Public Assistance This offers post- disaster funding for damaged facilities. There is no cap on this funding; it is non-competitive.	R IR	No	Not at the Borough level
State Funding Programs These offer funding at the state level to provide mitigation and post-disaster support.	P (R	No.	Completed bridge repairs and bank stabilization with State funds

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Local Funding Sources These offer funds at the local level through programs such as bonds, impact fees, etc.	P	No.	
Placeholder for additional capability	LR .		

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Education and Outreach	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the program/method in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Can it be used to carry out future post-disaster activities?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> <li>For information platforms:         <ul> <li>If you have used the platform in the past, did you find any areas to improve on?</li> <li>Do you have the resources to update the information right after a disaster?</li> </ul> </li> </ul>
Websites These are an outlet to post information online.	P R IR	Yes	Facebook, social media
Newsletters These are an outlet for periodic mailings.	P R IR	No.	

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Permits and Forms These are permits and forms that address the Special Flood Hazard Area.	R IR	Yes	
Handouts These are handouts to share at a central location so community members can learn information.	R IR	Yes.	Looking for more forms to provide to residents.
Trained Outreach Staff They are resources to help the public be more confident with mitigation, recovery and response initiatives.	P LR	Yes.	
Placeholder for additional capability			

The capability assessment is a key part of your local mitigation planning process. It helps your community find and assess the resources it needs to reduce risk. Capability assessment findings will help you inform how you reduce risk, meet planning requirements, pinpoint specific resource needs and gaps, and support proactive planning to speed up recovery efforts.

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Long-term Recovery	Months - Years	Focused on how to build back better for the future.	LR



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Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Planning and Regulatory	P R IR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Can you use it to make your community more resilient to disasters?</li> <li>Does it reflect current standards and best practices? If not, what are the barriers to updating it?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> </ul>
Floodplain Management Regulations These are rules to ensure communities take flood hazards into account in building and land use. For communities taking part in the National Flood Insurance Program (NFIP), these must meet or exceed the minimum NFIP requirements.	P	YIS	
Building Codes These are rules that specify standards for built structures. Having higher standards in local building codes can help reduce risk.	P LR	Yer	Lower Mazaveth Township is an opt-in municipality to the PA UCC.  The curvent PA UCC is 2018.  We do not have any updates planned.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Disaster Recovery Plan  This identifies the tools, resources and governance that communities may need after a disaster to ensure an expedited recovery.	P LR	No	Barriers: Funding, Staffing, Technical Experience
Substantial Damage Management Plan This is a regulatory requirement to assess potential damage to buildings; look at how to mitigate the potential for damage to those buildings; and lay out the strategy to address damage after any hazard event.	P	No	
Placeholder for additional capability			EAmendment to Act 537 for Georgetown Manor Sever Installation approved. Souer installation planned for 2024.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Administrative and Technical	P R IR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Do departments have enough staff?</li> <li>Do staff members understand their post-disaster roles and duties?</li> <li>Are staff well-trained?</li> <li>Are there onboarding and training materials for new staff members?</li> <li>How can capabilities be improved to further reduce risk?</li> </ul> </li> </ul>
Building Inspectors They administer and enforce building codes in a jurisdiction.	P R IR	Yes	We employ Bury I get + Associates as our third-party building inspetors Township has a staff person who serves as the local Building Code Official as required to the ucc. All training is maintained per ucc requirements.
Floodplain Manager They carry out the local floodplain management regulations and make sure the community complies with minimum NFIP standards.	P R IR	Yes	Additional training is needed to properly address duties. Additional staff is needed. One person wears many hats.
Emergency Manager They prepare and carry out plans and procedures for responding to natural disasters and emergencies.	P R LR	Yes	ANT has an appointed Emergency Manager.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Geographic Information Systems (GIS) Specialist They provide the ability to access and analyze geospatial data that may affect planning efforts.	IR LR	Yes	In addition to township engineer, INT has staff with GIS skills. AddI training is always needed, to stay up to date.
Grant Administrator and/or Writer They identify grant opportunities, prepare grant applications, and work to meet requirements for secured grants.		Yes	Tournship Manager is very skilled at grant writing however assistance may be needed for more technical CFEMA grout applications.
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Financial	P R IR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the funding resource in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Could it be used to fund future post-disaster activities?</li> <li>How does the capability support more resilient rebuilding efforts? What can be done to improve the speed, ease and affordability of these rebuilding efforts?</li> </ul> </li> </ul>
FEMA Hazard Mitigation Grant Program This offers post- disaster funding for facilities. This is capped funding that is competitive across the state. *406 Mitigation only applies to damaged facilities	IR LR	ifes	We have not applied for this type of grant but have the abstitute of apply with some fechnical assistance.
FEMA Public Assistance This offers post- disaster funding for damaged facilities. There is no cap on this funding; it is non-competitive.	R	Now	
State Funding Programs These offer funding at the state level to provide mitigation and post-disaster support.	P LR	Yes	

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Local Funding Sources These offer funds at the local level through programs such as bonds, impact fees, etc.	P	Yes	We have unfact fees for open space and traffic.
Placeholder for additional capability			We have received many grants for improvement projects throughout the township from Nevthampton County, DCNR, DFEP, PADOT.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Education and Outreach	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the program/method in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Can it be used to carry out future post-disaster activities?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> <li>For information platforms:         <ul> <li>If you have used the platform in the past, did you find any areas to improve on?</li> <li>Do you have the resources to update the information right after a disaster?</li> </ul> </li> </ul>
Websites These are an outlet to post information online.	P R IR	Yes	We have a website, Facebook and Nixte which we use to communicate information to the public.
Newsletters These are an outlet for periodic mailings.	P R	Yes	We publish a newsletter twice a year which includes community updates, sum info and flooding info ± 1/year.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Permits and Forms These are permits and forms that address the Special Flood Hazard Area.	R	V	We have an application for development in the floody bain
Handouts These are handouts to share at a central location so community members can learn information.	R	Yes	We have many bandonts available in our Lossy from a variety of Sairces. We sametimes create our awn if needed.
Trained Outreach Staff They are resources to help the public be more confident with mitigation, recovery and response initiatives.	P	Yes	
Placeholder for additional capability			

The capability assessment is a key part of your local mitigation planning process. It helps your community find and assess the resources it needs to reduce risk. Capability assessment findings will help you inform how you reduce risk, meet planning requirements, pinpoint specific resource needs and gaps, and support proactive planning to speed up recovery efforts.

## **Getting Started**

Use this worksheet to assess your community's capabilities in terms of hazard mitigation and risk reduction. This evaluation should help you see where your capabilities are strongest. It will also point out any gaps and areas for improvement.

#### **Types of Capabilities**

- Planning and Regulatory: Planning and regulatory capabilities are plans, policies, codes and ordinances that
  prevent and reduce the impacts of hazards. These tools can guide development and manage growth in your
  community.
- 2. **Administrative and Technical:** Administrative and technical capabilities include staff and their skills and tools that can help carry out mitigation actions. These may be local staff and departments, as well as academic partners, regional planning and nonprofit and private organizations.
- 3. **Financial:** Financial capabilities include access to or eligibility to use funding resources for hazard mitigation. Think about state and federal funding programs, private and nonprofit resources, and internal funding sources.
- 4. **Education and Outreach:** Education and outreach capabilities include programs and methods that could be used to carry out mitigation actions and share hazard-related information. These could include training sessions or awareness campaigns that build capacity.

### **Connecting Capabilities to the Disaster Recovery Timeline**

Phase	Timeline	Description	Symbol
Preparedness	Ongoing	Laying groundwork for recovery in case of an event.	P
Response	Days	Taking fast action to make sure the community is okay.	R
Intermediate Recovery	Weeks - Months	Short term response to find immediate solutions.	IR
Long-term Recovery	Months - Years	Focused on how to build back better for the future.	LR

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Planning and Regulatory	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Can you use it to make your community more resilient to disasters?</li> <li>Does it reflect current standards and best practices? If not, what are the barriers to updating it?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> </ul>
Floodplain Management Regulations These are rules to ensure communities take flood hazards into account in building and land use. For communities taking part in the National Flood Insurance Program (NFIP), these must meet or exceed the minimum NFIP requirements.	P LR	Yes	The Borough utilizes LVPC, DCNR and NPDES permitting process for new construction and Land Development.
Building Codes These are rules that specify standards for built structures. Having higher standards in local building codes can help reduce risk.	P LR	Yes	The Borough utilizes Keycodes as its building code inspections.  The Borough had adopted the UCC and Property International Maintenance Code.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Disaster Recovery Plan  This identifies the tools, resources and governance that communities may need after a disaster to ensure an expedited recovery.	P LR	Yes	The Borough utilizes PEMA and FEMA guidance in developing a Disaster Recovery Plan
Substantial Damage Management Plan This is a regulatory requirement to assess potential damage to buildings; look at how to mitigate the potential for damage to those buildings; and lay out the strategy to address damage after any hazard event.	P LR	Yes	The Borough utilizes the PEMA Substantial Improvements/Substantial Damages Toolkit  Limited exposure as only a handful of residences and business located in historic flood plain
Placeholder for additional capability		No	Continuity of Operations Plans needed for Borough Government and the Borough's emergency service provider

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Administrative and Technical	P R IR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Do departments have enough staff?</li> <li>Do staff members understand their post-disaster roles and duties?</li> <li>Are staff well-trained?</li> <li>Are there onboarding and training materials for new staff members?</li> <li>How can capabilities be improved to further reduce risk?</li> </ul> </li> </ul>
Building Inspectors They administer and enforce building codes in a jurisdiction.	P R IR	Yes	Keycodes Inspection Agency
Floodplain Manager They carry out the local floodplain management regulations and make sure the community complies with minimum NFIP standards.	P R IR	Yes	
Emergency Manager They prepare and carry out plans and procedures for responding to natural disasters and emergencies.	P R LR	Yes	The Borough has an Emergency Management Coordinator responsible for developing and updating the Borough's Emergency Operations Plan and mitigating, planning, responding and recovering from all hazards that may impact the Borough of Tatamy

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Geographic Information Systems (GIS) Specialist They provide the ability to access and analyze geospatial data that may affect planning efforts.	IR LR		GIS is in progress
Grant Administrator and/or Writer They identify grant opportunities, prepare grant applications, and work to meet requirements for secured grants.	IR IR	In Place	The Borough Manager, Mayor and Borough Council identify grant opportunities and prepare grant applications
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Financial	P R IR LR	Yes or No	<ul> <li>If you do <u>not</u> have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the funding resource in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Could it be used to fund future post-disaster activities?</li> <li>How does the capability support more resilient rebuilding efforts? What can be done to improve the speed, ease and affordability of these rebuilding efforts?</li> </ul> </li> </ul>
FEMA Hazard Mitigation Grant Program This offers post- disaster funding for facilities. This is capped funding that is competitive across the state. *406 Mitigation only applies to damaged facilities	IR IR	No	Hazard Mitigation Grants have been limited and competitive with limited availability to the Borough
FEMA Public Assistance This offers post- disaster funding for damaged facilities. There is no cap on this funding; it is non-competitive.	R IR	No	The most recent disaster damages have not met federal thresholds for acquiring FEMA Public Assistance.  Business had to rely on Small Business Administration assistance

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
State Funding Programs These offer funding at the state level to provide mitigation and post-disaster support.	P (R	No	
Local Funding Sources These offer funds at the local level through programs such as bonds, impact fees, etc.	P (R	No	
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Education and Outreach	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the program/method in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Can it be used to carry out future post-disaster activities?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> <li>For information platforms:         <ul> <li>If you have used the platform in the past, did you find any areas to improve on?</li> <li>Do you have the resources to update the information right after a disaster?</li> </ul> </li> </ul>
Websites These are an outlet to post information online.	P R IR	Yes	The Borough has a designated website at <a href="https://www.tatamypa.com/">https://www.tatamypa.com/</a>
Newsletters These are an outlet for periodic mailings.	P R IR	Yes	The Borough has a published newsletter at <a href="https://www.tatamypa.com/pdf/newsletter.pdf">https://www.tatamypa.com/pdf/newsletter.pdf</a>

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Permits and Forms These are permits and forms that address the Special Flood Hazard Area.	R IR	No	There are not Special Flood Hazard Areas
Handouts These are handouts to share at a central location so community members can learn information.	R IR	Yes	The Borough Office is accessible for handouts for information
Trained Outreach Staff They are resources to help the public be more confident with mitigation, recovery and response initiatives.	P LR	No	
Placeholder for additional capability			

The capability assessment is a key part of your local mitigation planning process. It helps your community find and assess the resources it needs to reduce risk. Capability assessment findings will help you inform how you reduce risk, meet planning requirements, pinpoint specific resource needs and gaps, and support proactive planning to speed up recovery efforts.

## **Getting Started**

Use this worksheet to assess your community's capabilities in terms of hazard mitigation and risk reduction. This evaluation should help you see where your capabilities are strongest. It will also point out any gaps and areas for improvement.

#### **Types of Capabilities**

- Planning and Regulatory: Planning and regulatory capabilities are plans, policies, codes and ordinances that
  prevent and reduce the impacts of hazards. These tools can guide development and manage growth in your
  community.
- 2. **Administrative and Technical:** Administrative and technical capabilities include staff and their skills and tools that can help carry out mitigation actions. These may be local staff and departments, as well as academic partners, regional planning and nonprofit and private organizations.
- 3. **Financial:** Financial capabilities include access to or eligibility to use funding resources for hazard mitigation. Think about state and federal funding programs, private and nonprofit resources, and internal funding sources.
- 4. **Education and Outreach:** Education and outreach capabilities include programs and methods that could be used to carry out mitigation actions and share hazard-related information. These could include training sessions or awareness campaigns that build capacity.

### **Connecting Capabilities to the Disaster Recovery Timeline**

Phase	Timeline	Description	Symbol
Preparedness	Ongoing	Laying groundwork for recovery in case of an event.	P
Response	Days	Taking fast action to make sure the community is okay.	R
Intermediate Recovery	Weeks - Months	Short term response to find immediate solutions.	IR
Long-term Recovery	Months - Years	Focused on how to build back better for the future.	LR

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Planning and Regulatory	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Can you use it to make your community more resilient to disasters?</li> <li>Does it reflect current standards and best practices? If not, what are the barriers to updating it?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> </ul>
Floodplain Management Regulations These are rules to ensure communities take flood hazards into account in building and land use. For communities taking part in the National Flood Insurance Program (NFIP), these must meet or exceed the minimum NFIP requirements.	P IR	YES	The Wilson Borough Floodplain administer is responsible for issuing building permits after determining that work is in conformance with at least minimum standards of floodplain regulations provided by NFIP, according to section § 110-6 Issuance of building permits of the Wilson Borough Code.
Building Codes These are rules that specify standards for built structures. Having higher standards in local building codes can help reduce risk.	P (R	YES	Current ordinance passed in 2010 for adopting and using the 2009 International Building Code.  Will be investigating adopting the 2018 code series.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Disaster Recovery Plan  This identifies the tools, resources and governance that communities may need after a disaster to ensure an expedited recovery.	P LR	NO	Lack of staffing and funding are the main barriers to implementing a Disaster Recovery Plan.
Substantial Damage Management Plan This is a regulatory requirement to assess potential damage to buildings; look at how to mitigate the potential for damage to those buildings; and lay out the strategy to address damage after any hazard event.	P (R	NO	Lack of staffing and funding are the main barriers to implementing a Substantial Disaster Management Plan.
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Administrative and Technical	P R IR		
Building Inspectors They administer and enforce building codes in a jurisdiction.	P R IR	YES	Wilson Borough contracts with Barry Isett and Associates as a third party for all code inspection and plan review.
Floodplain Manager They carry out the local floodplain management regulations and make sure the community complies with minimum NFIP standards.	P R IR	YES	Wilson Borough contracts with T and M Associates as a third party for all planning, zoning, and Floodplain management.
Emergency Manager They prepare and carry out plans and procedures for responding to natural disasters and emergencies.	P R LR	YES	Wilson Borough employs both an Emergency Manager and a Deputy Emergency Manager.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Geographic Information Systems (GIS) Specialist They provide the ability to access and analyze geospatial data that may affect planning efforts.	IR LR	YES	Wilson Borough contracts with T and M Associates as a third party who have the ability to access and analyze geospatial data.
Grant Administrator and/or Writer They identify grant opportunities, prepare grant applications, and work to meet requirements for secured grants.	IR LR	YES	Wilson Borough staff manage most small grant opportunities requests. For larger grants, T and M Associates assists with grant writing.
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Financial	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the funding resource in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Could it be used to fund future post-disaster activities?</li> <li>How does the capability support more resilient rebuilding efforts? What can be done to improve the speed, ease and affordability of these rebuilding efforts?</li> </ul> </li> </ul>
FEMA Hazard Mitigation Grant Program This offers post- disaster funding for facilities. This is capped funding that is competitive across the state. *406 Mitigation only applies to damaged facilities	IR LR	YES	For larger type projects Wilson Borough staff would work with T and M associates for any grant funding.
FEMA Public Assistance This offers post- disaster funding for damaged facilities. There is no cap on this funding; it is non-competitive.	R IR	YES	In the past Wilson Borough staff have received funding for winter storms and hurricanes.
State Funding Programs These offer funding at the state level to provide mitigation and post-disaster support.	P LR	YES	Wilson Borough staff manage most small funding requests. For larger funding requests, T and M Associates would assist.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Local Funding Sources These offer funds at the local level through programs such as bonds, impact fees, etc.	P (R	NO	Local funding sources have usually been used for small clean up or repairs of Wilson Borough owned roads and properties.
Placeholder for additional capability			

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Education and Outreach	P R IR LR	Yes or No	<ul> <li>If you do not have this capability, what are the barriers to having it (funding, staffing, technical experience, etc.)?</li> <li>If you have this capability:         <ul> <li>Have you used the program/method in the past for post-disaster activities? If so, what type of activities did you use it for?</li> <li>Can it be used to carry out future post-disaster activities?</li> <li>How can it be improved to further reduce risk?</li> </ul> </li> <li>For information platforms:         <ul> <li>If you have used the platform in the past, did you find any areas to improve on?</li> <li>Do you have the resources to update the information right after a disaster?</li> </ul> </li> </ul>
Websites These are an outlet to post information online.	P R IR	YES	Wilson Borough has a municipal website that is updated often with pertinent information for residents.  Wilson Borough has used both their website and Facebook page in the past for disseminating information regarding storms and power outages.
Newsletters These are an outlet for periodic mailings.	P R IR	YES	Wilson Borough publishes and mails out a bi-annual newsletter (also available on the website). The newsletter allows officials and department heads (Police, Fire, and Public Works) the ability to communicate with residents any upcoming projects or special programs that residents might be eligible for.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Permits and Forms These are permits and forms that address the Special Flood Hazard Area.	R	YES	All permits and forms can be requested from the Wilson Borough office.  Most questions would be passed on to T and M Associates who are employed as a third-party engineering company.
Handouts These are handouts to share at a central location so community members can learn information.	R IR	YES	Handouts are handed out at community events such as the community fair. Handouts are often printed out from Northampton County, state, and federal sources.
Trained Outreach Staff They are resources to help the public be more confident with mitigation, recovery and response initiatives.	P	YES	The Wilson Borough emergency manager and deputy manager, along Wilson Borough and Northampton County staff are able to assist and guide residents through the mitigation, recovery, and response initiatives.

Capability Type	Phase	In Place?	Evaluate Your Community's Capability
Placeholder for additional capability			



Community/Organization: Borough of Albertis	Name and Title: Stephen Nemeth, Borough Manager
J. Company of the Com	

Propose	d Goals and Objectives	Comments		
Goal 1: Minimize the risk to human life associated with natural	Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation planning and actions.	Overall a better Strategic Avaneress campuign Could potentially Benefit the greater commounity		
and non-natural hazards.	Continuously promote and maintain better early warning and emergency communications.     Provide added protection for vulnerable populations.	No comment ; Agree With Proposed goal  No comment		
Goal 2: Promote hazard avoidance, especially in floodplains.	Minimize future risk of losses associated with structures, including repetitive loss structures.     Reduce flooding potential through planning, training, and outreach.	No Additional Comment, Agree		
	3. Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.	Completely Agree; No Addition comment		
Goal 3: Reduce the damages and functional loss from natural	1. Identify the current risks of critical facilities and infrastructure from hazards, and determine actions to lessen those risks in the future.	Completely Agree		
and non-natural hazards to existing and future public and	2. Encourage and/or perform regular maintenance and upgrades of existing drainage systems potentially impacting critical facilities.	No Additional Compant		
private assets, including structures, critical facilities,	3. Encourage and/or provide backup power resources (generators) for critical facilities.	No Additional comment		
and infrastructure.	4. Encourage and/or perform maintenance and updates to reduce long-term vulnerability to high hazard potential dams.	No Additional Comment		

Propose	ed Goals and Objectives	Comments		
Goal 4:	1. Encourage and/or provide maintenance and	Agree this should be a priority		
Preserve and enhance the	restoration of streams and rivers and associated floodplains to naturally provide flood mitigation.			
effectiveness of natural	noouplains to naturally provide flood mitigation.	1.0. A		
resources, including		Agree with this proposed of goal; no Additional		
woodlands, streams, rivers,	2. Encourage regulation of and/or regulate	Comment.		
wetlands, floodplains and	development in priority conservation areas, including			
riparian buffers to provide	floodplains, to minimize flood damage.			
resiliency benefits.				
Goal 5:	1. Thoroughly assess the community, established	No Additional Comments		
Develop, prioritize, and	capabilities, and identify specific cost-effective	No produpora i Copingrarius		
implement cost-effective,	actions for improvement, relative to existing and future hazard risks.			
long-term actions that will		V 1112 1 1		
reduce the impacts of natural	2. Establish mitigation action priorities, encourage,	No Additional Comments		
and non-natural hazards.	and track progress.			
Goal 6:	Better integrate hazard mitigation planning with	No Additional Comments		
Improve local regulations to	comprehensive planning and land use regulations.  2. Identify and promote "best practices" for			
reduce the impacts of natural	municipal regulation of land use in zoning and	No Additional Comments		
and non-natural hazards.	subdivision ordinances and official maps.	100 1100		
	B. Encourage proactive planning for potential hazard	No Additional Comments		
	events and potential related property damage.	,		
	Incorporate hazard mitigation planning into existing municipal policy.	No Additional Comments		
Goal 7:	Continually improve communication capabilities,	No Additional Property		
Enhance planning and	training, and coordination for hazard events.	/ Comment		
emergency response efforts	2. Continually improve the planning for shelters, evacuation routes, and disaster recovery.	No Additional Comments		
among federal, state, county,	Continue the promotion of disaster resiliency in	/ /		
and local emergency	the business community.	No Adelitional Comments		
management personnel to	A DA-interior and A comment of the c			
protect public health and	4. Maintain and/or upgrade emergency response equipment and resources.	No Additional Comments		
safety.	equipment and resources.			

Propose	ed Goals and Objectives	Comments
Goal 8: Improve local regulations to reduce the impacts of natural	Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.	
and non-natural hazards.	2. Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.	
New Goal:	New Objective 1:	
	New Objective 2:	
	New Objective 3:	
	New Objective 4:	



Community/Organization:	Allen	Two	Name and Title:	Cary	Krill	EMC
				0 1		
Use the comment hoxes to pro	vide feedback	or to suggest r	modification of any of the	e proposed goa	als or objective	s You may suggest

Propose	d Goals and Objectives	Comments
Goal 1: Minimize the risk to human	Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation	
life associated with natural and non-natural hazards.	planning and actions.  2. Continuously promote and maintain better early	
	warning and emergency communications.  3. Provide added protection for vulnerable populations.	
Goal 2: Promote hazard avoidance, especially in floodplains.	Minimize future risk of losses associated with structures, including repetitive loss structures.     Reduce flooding potential through planning, training, and outreach.	
	3. Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.	
Goal 3: Reduce the damages and functional loss from natural	1. Identify the current risks of critical facilities and infrastructure from hazards, and determine actions to lessen those risks in the future.	
and non-natural hazards to existing and future public and	2. Encourage and/or perform regular maintenance and upgrades of existing drainage systems potentially impacting critical facilities.	
private assets, including structures, critical facilities,	Encourage and/or provide backup power resources (generators) for critical facilities.      Encourage and/or perform maintenance and	
and infrastructure.	updates to reduce long-term vulnerability to high hazard potential dams.	

Propose	ed Goals and Objectives	Comments
Goal 4:	1. Encourage and/or provide maintenance and	
Preserve and enhance the	restoration of streams and rivers and associated	
effectiveness of natural	floodplains to naturally provide flood mitigation.	
resources, including		
woodlands, streams, rivers,	2. Encourage regulation of and/or regulate	
wetlands, floodplains and	development in priority conservation areas, including	
	floodplains, to minimize flood damage.	
riparian buffers to provide		
resiliency benefits.		
Goal 5:	Thoroughly assess the community, established capabilities, and identify specific cost-effective	
Develop, prioritize, and	actions for improvement, relative to existing and	
implement cost-effective,	future hazard risks.	
long-term actions that will		
reduce the impacts of natural	2. Establish mitigation action priorities, encourage,	
and non-natural hazards.	and track progress.	
Goal 6:	1. Better integrate hazard mitigation planning with	
Improve local regulations to	comprehensive planning and land use regulations.	
reduce the impacts of natural	2. Identify and promote "best practices" for	
and non-natural hazards.	municipal regulation of land use in zoning and	
and non-natural mazarus.	subdivision ordinances and official maps.	
	3. Encourage proactive planning for potential hazard events and potential related property damage.	
	4. Incorporate hazard mitigation planning into	
	existing municipal policy.	
Goal 7:	1. Continually improve communication capabilities,	
Enhance planning and	training, and coordination for hazard events.	
	2. Continually improve the planning for shelters,	
emergency response efforts	evacuation routes, and disaster recovery.	
among federal, state, county,	3. Continue the promotion of disaster resiliency in	
and local emergency	the business community.	
management personnel to	4. Maintain and/or upgrade emergency response	
protect public health and	equipment and resources.	
safety.	and the first section of the section	

Propose	ed Goals and Objectives	Comments		
Goal 8: Improve local regulations to reduce the impacts of natural	1. Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.			
and non-natural hazards.	2. Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.			
New Goal:	New Objective 1:			
	New Objective 2:			
	New Objective 3:			
	New Objective 4:			



Community/Organization: CLE	4 of	Bethlehen	Name and Title: Bob	NOVATNACK	EM DIFECTOR
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Propose	ed Goals and Objectives	Comments
Goal 1:  Minimize the risk to human life associated with natural and non-natural hazards.	1. Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation planning and actions.	Looks Good
and non-natural nazards.	2. Continuously promote and maintain better early warning and emergency communications.     3. Provide added protection for vulnerable populations.	HOMELESS LIVING IN ACEAS NOT ACCESSABLE FOR ASSISTANCE (FIRE EMS
Goal 2: Promote hazard avoidance, especially in floodplains.	Minimize future risk of losses associated with structures, including repetitive loss structures.     Reduce flooding potential through planning, training, and outreach.	
	3. Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.	LOOKS Good
Goal 3: Reduce the damages and functional loss from natural	Identify the current risks of critical facilities and infrastructure from hazards, and determine actions to lessen those risks in the future.	
and non-natural hazards to existing and future public and	2. Encourage and/or perform regular maintenance and upgrades of existing drainage systems potentially impacting critical facilities.	1 ocks Good
private assets, including structures, critical facilities, and infrastructure.	3. Encourage and/or provide backup power resources (generators) for critical facilities.  4. Encourage and/or perform maintenance and	
	updates to reduce long-term vulnerability to high hazard potential dams.	

Proposi	ed Goals and Objectives	Comments
Goal 4: Preserve and enhance the effectiveness of natural	Encourage and/or provide maintenance and restoration of streams and rivers and associated floodplains to naturally provide flood mitigation.	
resources, including woodlands, streams, rivers, wetlands, floodplains and riparian buffers to provide resiliency benefits.	2. Encourage regulation of and/or regulate development in priority conservation areas, including floodplains, to minimize flood damage.	Locks Good
Goal 5: Develop, prioritize, and implement cost-effective, long-term actions that will	1. Thoroughly assess the community, established capabilities, and identify specific cost-effective actions for improvement, relative to existing and future hazard risks.	Laks Good
reduce the impacts of natural and non-natural hazards.	2. Establish mitigation action priorities, encourage, and track progress.	
Goal 6:	1. Better integrate hazard mitigation planning with	
Improve local regulations to reduce the impacts of natural and non-natural hazards.	comprehensive planning and land use regulations.  2. Identify and promote "best practices" for municipal regulation of land use in zoning and subdivision ordinances and official maps.	Looks Earl
	<ul><li>3. Encourage proactive planning for potential hazard events and potential related property damage.</li><li>4. Incorporate hazard mitigation planning into existing municipal policy.</li></ul>	
Goal 7:	Continually improve communication capabilities,	
Enhance planning and	training, and coordination for hazard events.	
emergency response efforts among federal, state, county, and local emergency	Continually improve the planning for shelters, evacuation routes, and disaster recovery.     Continue the promotion of disaster resiliency in the business community.	LOKS Good
management personnel to protect public health and safety.	4. Maintain and/or upgrade emergency response equipment and resources.	

Proposi	ed Goals and Objectives	Comments
Goal 8: Improve local regulations to reduce the impacts of natural and non-natural hazards.	<ol> <li>Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.</li> <li>Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.</li> </ol>	Looke Good
New Goal:  Address  UN-HOUSED  RESIDENT ISSUES	New Objective 1: EducATE THE UNKOUSED ON SAFET ISSUES	FITE DANGES TO THEMSELVES / GTREIS  A.) IN ACCESSIBLE  B.) IN Flood ZONES
	New Objective 4:	



Community/Organization: C31Y of EASTON Name and Title: CARL A. MANGES RANA	CARLA. MANGES RANNING	ADMINISTANCE
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Propose	ed Goals and Objectives	Comments
Goal 1:  Minimize the risk to human  life associated with natural  and non-natural hazards.	Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation planning and actions.	
and non-natural riazarus.	Continuously promote and maintain better early warning and emergency communications.     Provide added protection for vulnerable populations.	
Goal 2: Promote hazard avoidance, especially in floodplains.	Minimize future risk of losses associated with structures, including repetitive loss structures.     Reduce flooding potential through planning, training, and outreach.     Encourage and facilitate the development or revision of comprehensive plans and zoning/land use	
Goal 3:	ordinances to limit development in high-hazard areas.  1. Identify the current risks of critical facilities and	
Reduce the damages and functional loss from natural	infrastructure from hazards, and determine actions to lessen those risks in the future.	
and non-natural hazards to existing and future public and	2. Encourage and/or perform regular maintenance and upgrades of existing drainage systems potentially impacting critical facilities.	
private assets, including structures, critical facilities,	3. Encourage and/or provide backup power resources (generators) for critical facilities.	
and infrastructure.	4. Encourage and/or perform maintenance and updates to reduce long-term vulnerability to high hazard potential dams.	

Propose	ed Goals and Objectives	Comments
Goal 4: Preserve and enhance the effectiveness of natural	Encourage and/or provide maintenance and restoration of streams and rivers and associated floodplains to naturally provide flood mitigation.	
resources, including woodlands, streams, rivers, wetlands, floodplains and riparian buffers to provide	2. Encourage regulation of and/or regulate development in priority conservation areas, including floodplains, to minimize flood damage.	
resiliency benefits.  Goal 5:  Develop, prioritize, and implement cost-effective,	Thoroughly assess the community, established capabilities, and identify specific cost-effective actions for improvement, relative to existing and future hazard risks.	
long-term actions that will reduce the impacts of natural and non-natural hazards.	2. Establish mitigation action priorities, encourage, and track progress.	
Goal 6: Improve local regulations to	Better integrate hazard mitigation planning with comprehensive planning and land use regulations.	
reduce the impacts of natural and non-natural hazards.	Identify and promote "best practices" for municipal regulation of land use in zoning and subdivision ordinances and official maps.	
	<ul><li>3. Encourage proactive planning for potential hazard events and potential related property damage.</li><li>4. Incorporate hazard mitigation planning into existing municipal policy.</li></ul>	
Goal 7:	1. Continually improve communication capabilities,	
Enhance planning and emergency response efforts among federal, state, county,	training, and coordination for hazard events.  2. Continually improve the planning for shelters, evacuation routes, and disaster recovery.  3. Continue the promotion of disaster resiliency in	
and local emergency management personnel to protect public health and safety.	the business community.  4. Maintain and/or upgrade emergency response equipment and resources.	

Propose	ed Goals and Objectives	Comments		
Goal 8: Improve local regulations to	Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.			
reduce the impacts of natural and non-natural hazards.	2. Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.			
New Goal:	New Objective 1:			
	New Objective 2:			
	New Objective 3:			
	New Objective 4:			



Community/Organization: CITY OF EASTON Name and Title: DWAYNE TILLMAN ZONING AMIN

Proposed Goals and Objectives		Comments
Goal 1: Minimize the risk to human life associated with natural and non-natural hazards.	Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation planning and actions.      Continuously promote and maintain better early warning and emergency communications.      Provide added protection for vulnerable populations.	
Goal 2: Promote hazard avoidance, especially in floodplains.	1. Minimize future risk of losses associated with structures, including repetitive loss structures.  2. Reduce flooding potential through planning, training, and outreach.  3. Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.	
Goal 3: Reduce the damages and functional loss from natural and non-natural hazards to existing and future public and private assets, including structures, critical facilities, and infrastructure.	1. Identify the current risks of critical facilities and infrastructure from hazards, and determine actions to lessen those risks in the future.  2. Encourage and/or perform regular maintenance and upgrades of existing drainage systems potentially impacting critical facilities.  3. Encourage and/or provide backup power resources (generators) for critical facilities.  4. Encourage and/or perform maintenance and updates to reduce long-term vulnerability to high hazard potential dams.	

Propose	ed Goals and Objectives	Comments		
Goal 4: Preserve and enhance the effectiveness of natural	Encourage and/or provide maintenance and restoration of streams and rivers and associated floodplains to naturally provide flood mitigation.			
resources, including woodlands, streams, rivers, wetlands, floodplains and riparian buffers to provide resiliency benefits.	Encourage regulation of and/or regulate development in priority conservation areas, including floodplains, to minimize flood damage.			
Goal 5: Develop, prioritize, and implement cost-effective, long-term actions that will	Thoroughly assess the community, established capabilities, and identify specific cost-effective actions for improvement, relative to existing and future hazard risks.			
reduce the impacts of natural and non-natural hazards.	Establish mitigation action priorities, encourage, and track progress.			
Goal 6:	Better integrate hazard mitigation planning with comprehensive planning and land use regulations.			
Improve local regulations to reduce the impacts of natural and non-natural hazards.	Identify and promote "best practices" for municipal regulation of land use in zoning and subdivision ordinances and official maps.			
	Encourage proactive planning for potential hazard events and potential related property damage.      Incorporate hazard mitigation planning into			
Goal 7:	existing municipal policy.  1. Continually improve communication capabilities,			
Enhance planning and emergency response efforts	training, and coordination for hazard events.  2. Continually improve the planning for shelters, evacuation routes, and disaster recovery.			
among federal, state, county, and local emergency	Continue the promotion of disaster resiliency in the business community.			
management personnel to protect public health and safety.	4. Maintain and/or upgrade emergency response equipment and resources.			

Proposi	ed Goals and Objectives	Comments
Goal 8: Improve local regulations to reduce the impacts of natural	Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.	
and non-natural hazards.	Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.	
New Goal:	New Objective 1:	
	New Objective 2:	
	New Objective 3:	
	New Objective 4:	



Community/Organization:	Hanover	TOYNSHIPLE	Name and Title:	Chris	Spade	966	EMC	
	1 1 1 2	1 120111						

Proposed Goals and Objectives		Comments
Goal 1: Minimize the risk to human life associated with natural	Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation planning and actions.	No Chanses
and non-natural hazards.	Continuously promote and maintain better early warning and emergency communications.     Provide added protection for vulnerable	
Goal 2:	populations.  1. Minimize future risk of losses associated with structures, including repetitive loss structures.	
Promote hazard avoidance, especially in floodplains.	Reduce flooding potential through planning, training, and outreach.	
	3. Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.	
Goal 3: Reduce the damages and	1. Identify the current risks of critical facilities and infrastructure from hazards, and determine actions to lessen those risks in the future.	
functional loss from natural and non-natural hazards to existing and future public and	2. Encourage and/or perform regular maintenance and upgrades of existing drainage systems potentially impacting critical facilities.	
private assets, including structures, critical facilities,	3. Encourage and/or provide backup power resources (generators) for critical facilities.	
and infrastructure.	4. Encourage and/or perform maintenance and updates to reduce long-term vulnerability to high hazard potential dams.	

Propose	d Goals and Objectives	Comments
Goal 4: Preserve and enhance the effectiveness of natural	Encourage and/or provide maintenance and restoration of streams and rivers and associated floodplains to naturally provide flood mitigation.	No Changes
resources, including woodlands, streams, rivers, wetlands, floodplains and riparian buffers to provide resiliency benefits.	2. Encourage regulation of and/or regulate development in priority conservation areas, including floodplains, to minimize flood damage.	
Goal 5: Develop, prioritize, and implement cost-effective,	Thoroughly assess the community, established capabilities, and identify specific cost-effective actions for improvement, relative to existing and future hazard risks.	
Iong-term actions that will reduce the impacts of natural and non-natural hazards.	2. Establish mitigation action priorities, encourage, and track progress.	
Goal 6:	1. Better integrate hazard mitigation planning with	
Improve local regulations to reduce the impacts of natural and non-natural hazards.	comprehensive planning and land use regulations.  2. Identify and promote "best practices" for municipal regulation of land use in zoning and subdivision ordinances and official maps.	
	3. Encourage proactive planning for potential hazard events and potential related property damage.     4. Incorporate hazard mitigation planning into existing municipal policy.	
Goal 7:	1. Continually improve communication capabilities,	
Enhance planning and emergency response efforts	training, and coordination for hazard events.  2. Continually improve the planning for shelters, evacuation routes, and disaster recovery.	
among federal, state, county, and local emergency	3. Continue the promotion of disaster resiliency in the business community.	
management personnel to protect public health and safety.	4. Maintain and/or upgrade emergency response equipment and resources.	

Propose	ed Goals and Objectives	Comments
Goal 8: Improve local regulations to reduce the impacts of natural	Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.	No Changes
and non-natural hazards.	2. Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.	
New Goal:	New Objective 1:	
	New Objective 2:	
	New Objective 3:	
	New Objective 4:	



# **Goal and Objective Review Worksheet**

Community/Organization:	LEHILA	TWP NORCO	Name and Title:	Scott	REHRIL	EMC	
				00011	REHRIL	EMC	

Goal 1:	sed Goals and Objectives	Comments
	Create a better understanding among the public	
Minimize the risk to human	and local governments of the benefits and	
life associated with natural	opportunities associated with hazard mitigation	
and non-natural hazards.	planning and actions.	
and the same of th	2. Continuously promote and maintain better early	
	warning and emergency communications.	
	Provide added protection for vulnerable	
	populations.	
Goal 2:	Minimize future risk of losses associated with	
Promote hazard avoidance,	structures, including repetitive loss structures.	
especially in floodplains.	Reduce flooding potential through planning,	
in nodupianis.	training, and outreach.	
	3. Encourage and facilitate the development or	
	revision of comprehensive plans and zoning/land use	
	ordinances to limit development in high-hazard	
	areas.	
Goal 3:	Identify the current risks of critical facilities and	
Reduce the damages and	infrastructure from hazards, and determine actions	
unctional loss from natural	to lessen those risks in the future.	
nd non-natural hazards to	2. Encourage and/or perform regular maintenance	
	and upgrades of existing drainage systems potentially	
isting and future public and	impacting critical facilities.	
private assets, including	3. Encourage and/or provide backup power resources	
tructures, critical facilities,	(generators) for critical facilities.	
and infrastructure.	4. Encourage and/or perform maintenance and	
and minds in detaile.	updates to reduce long-term vulnerability to high	
	hazard potential dams.	

Propos	sed Goals and Objectives	Comments
Goal 4: Preserve and enhance the	Encourage and/or provide maintenance and restoration of streams and rivers and associated	Comments
effectiveness of natural	floodplains to naturally provide flood mitigation.	
resources, including woodlands, streams, rivers,	2 5	
wetlands, floodplains and	Encourage regulation of and/or regulate     development in priority conservation areas, including	
riparian buffers to provide	floodplains, to minimize flood damage.	
resiliency benefits.		
Goal 5:	1. Thoroughly assess the community, established	
Develop, prioritize, and implement cost-effective,	capabilities, and identify specific cost-effective actions for improvement, relative to existing and	
long-term actions that will	future hazard risks.	
reduce the impacts of natural	2. Establish mitigation action priorities, encourage,	
and non-natural hazards.	and track progress.	
Goal 6:	1. Better integrate hazard mitigation planning with	
Improve local regulations to reduce the impacts of natural	comprehensive planning and land use regulations.  2. Identify and promote "best practices" for	
and non-natural hazards.	municipal regulation of land use in zoning and subdivision ordinances and official maps.	
	Encourage proactive planning for potential hazard	
	events and potential related property damage.	
	Incorporate hazard mitigation planning into existing municipal policy.	
Goal 7:	1. Continually improve communication capabilities,	
Enhance planning and	training, and coordination for hazard events.  2. Continually improve the planning for shelters,	
emergency response efforts mong federal, state, county,	evacuation routes, and disaster recovery.	
and local emergency	3. Continue the promotion of disaster resiliency in the business community.	
management personnel to protect public health and safety.	4. Maintain and/or upgrade emergency response equipment and resources.	

Flupus	ed Goals and Objectives	Comments
Goal 8:	Encourage and/or provide education and outreach	Comments
mprove local regulations to	to increase awareness of hazards and opportunities	
educe the impacts of natural	for mitigation.	
and non-natural hazards.	2. Encourage and/or provide public education	
Tracar as	programs for businesses, households, and individuals	
No. C. I	on mitigation, safety measures, and preparedness.	
New Goal:	New Objective 1:	
	New Objective 2:	
	New Objective 2.	
	New Objective 3:	
	New Objective 4:	



Community/Organization:	Lehran Cour	ChyAntling Name a	nd Title: Liesel Gross	S. CFD
	()			/

Propose	ed Goals and Objectives	Comments
Goal 1:	1. Create a better understanding among the public	
Minimize the risk to human	and local governments of the benefits and	
life associated with natural	opportunities associated with hazard mitigation	
and non-natural hazards.	planning and actions.	
and non-natural nazards.	2. Continuously promote and maintain better early	
	warning and emergency communications.	
[ ]	3. Provide added protection for vulnerable	
	populations.	
Goal 2:	Minimize future risk of losses associated with	
Promote hazard avoidance,	structures, including repetitive loss structures.	
especially in floodplains.	2. Reduce flooding potential through planning,	
especially in nodapianis.	training, and outreach.	
	3. Encourage and facilitate the development or	
	revision of comprehensive plans and zoning/land use	
	ordinances to limit development in high-hazard	
	areas.	
Goal 3:	1. Identify the current risks of critical facilities and	
Reduce the damages and	infrastructure from hazards, and determine actions	$\bigvee$
functional loss from natural	to lessen those risks in the future.	
and non-natural hazards to	2. Encourage and/or perform regular maintenance	
	and upgrades of existing drainage systems potentially	✓
existing and future public and	impacting critical facilities.	
private assets, including	3. Encourage and/or provide backup power resources	
structures, critical facilities,	(generators) for critical facilities.	
and infrastructure.	4. Encourage and/or perform maintenance and	
	updates to reduce long-term vulnerability to high	
	hazard potential dams.	

Propose	ed Goals and Objectives	Comments
Goal 4: Preserve and enhance the effectiveness of natural	Encourage and/or provide maintenance and restoration of streams and rivers and associated floodplains to naturally provide flood mitigation.	
resources, including woodlands, streams, rivers, wetlands, floodplains and riparian buffers to provide resiliency benefits.	2. Encourage regulation of and/or regulate development in priority conservation areas, including floodplains, to minimize flood damage.	
Goal 5: Develop, prioritize, and implement cost-effective, long-term actions that will	1. Thoroughly assess the community, established capabilities, and identify specific cost-effective actions for improvement, relative to existing and future hazard risks.	
reduce the impacts of natural and non-natural hazards.	2. Establish mitigation action priorities, encourage, and track progress.	
Goal 6: Improve local regulations to reduce the impacts of natural	Better integrate hazard mitigation planning with comprehensive planning and land use regulations.      Identify and promote "best practices" for municipal regulation of land use in zoning and	
and non-natural hazards.	subdivision ordinances and official maps.  3. Encourage proactive planning for potential hazard events and potential related property damage.	
	4. Incorporate hazard mitigation planning into existing municipal policy.	
Goal 7: Enhance planning and	Continually improve communication capabilities, training, and coordination for hazard events.     Continually improve the planning for shelters,	
emergency response efforts among federal, state, county, and local emergency	evacuation routes, and disaster recovery.  3. Continue the promotion of disaster resiliency in	
management personnel to protect public health and safety.	the business community.  4. Maintain and/or upgrade emergency response equipment and resources.	

Propose	ed Goals and Objectives	Comments
Goal 8: Improve local regulations to reduce the impacts of natural	Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.	
and non-natural hazards.	2. Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.	
New Goal:	New Objective 1:	
	New Objective 2:	
	New Objective 3:	
	New Objective 4:	



Community/Organization:	N. CATASAUGUA	Borough	Name and Title: Grey Scifeirer EMC.	
	EMA.	3	T-84-74 4 1 2 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	

Propose	ed Goals and Objectives	Comments
Goal 1: Minimize the risk to human life associated with natural	1. Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation planning and actions.	Already do.
and non-natural hazards.	2. Continuously promote and maintain better early warning and emergency communications.     3. Provide added protection for vulnerable populations.	N/A
Goal 2: Promote hazard avoidance, especially in floodplains.	Minimize future risk of losses associated with structures, including repetitive loss structures.     Reduce flooding potential through planning, training, and outreach.	Book Good Good GOAL. Already de
	3. Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.	10 11
Goal 3: Reduce the damages and functional loss from natural	Identify the current risks of critical facilities and infrastructure from hazards, and determine actions to lessen those risks in the future.	A. CONSTANT JOB.
and non-natural hazards to existing and future public and	<ol><li>Encourage and/or perform regular maintenance and upgrades of existing drainage systems potentially impacting critical facilities.</li></ol>	Already De
private assets, including structures, critical facilities,	3. Encourage and/or provide backup power resources (generators) for critical facilities.	this is a must do project.
and infrastructure.	4. Encourage and/or perform maintenance and updates to reduce long-term vulnerability to high hazard potential dams.	N/A

Propose	ed Goals and Objectives	Comments
Goal 4: Preserve and enhance the effectiveness of natural	Encourage and/or provide maintenance and restoration of streams and rivers and associated floodplains to naturally provide flood mitigation.	~/n
resources, including woodlands, streams, rivers, wetlands, floodplains and riparian buffers to provide resiliency benefits.	2. Encourage regulation of and/or regulate development in priority conservation areas, including floodplains, to minimize flood damage.	N/A.
Goal 5: Develop, prioritize, and implement cost-effective, long-term actions that will	1. Thoroughly assess the community, established capabilities, and identify specific cost-effective actions for improvement, relative to existing and future hazard risks.	whis is a good goal.
reduce the impacts of natural and non-natural hazards.	2. Establish mitigation action priorities, encourage, and track progress.	
Goal 6:	Better integrate hazard mitigation planning with comprehensive planning and land use regulations.	Acresdy do
Improve local regulations to reduce the impacts of natural and non-natural hazards.	Identify and promote "best practices" for municipal regulation of land use in zoning and subdivision ordinances and official maps.	11
	<ul><li>3. Encourage proactive planning for potential hazard events and potential related property damage.</li><li>4. Incorporate hazard mitigation planning into existing municipal policy.</li></ul>	Top priority Already Do.
Goal 7:	1. Continually improve communication capabilities,	
Enhance planning and emergency response efforts among federal, state, county,	training, and coordination for hazard events.  2. Continually improve the planning for shelters, evacuation routes, and disaster recovery.	top Priority
and local emergency	3. Continue the promotion of disaster resiliency in the business community.	N/A.
management personnel to protect public health and safety.	4. Maintain and/or upgrade emergency response equipment and resources.	top Priority

Propose	ed Goals and Objectives	Comments		
Goal 8: Improve local regulations to reduce the impacts of natural	1. Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.	Already Do.		
and non-natural hazards.	2. Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.	Already Do.		
New Goal:	New Objective 1:			
	New Objective 2:			
	New Objective 3:			
	New Objective 4:			



Community/Organization:	TATAMY	BUROVGER	Name and Title:	Diciolo	DEDMMU -	eme	
				001110	Well Chillian -	Corre	

Propose	ed Goals and Objectives	Comments
Goal 1:	1. Create a better understanding among the public	Comments
Minimize the risk to human	and local governments of the benefits and	*
life associated with natural	opportunities associated with hazard mitigation	
and non-natural hazards.	planning and actions.	
and non natural mazards.	2. Continuously promote and maintain better early	
	warning and emergency communications.	
	3. Provide added protection for vulnerable	
	populations.	
Goal 2:	1. Minimize future risk of losses associated with	
Promote hazard avoidance,	structures, including repetitive loss structures.	
especially in floodplains.	2. Reduce flooding potential through planning,	
aspectation in the deplating.	training, and outreach.	
	3. Encourage and facilitate the development or	
	revision of comprehensive plans and zoning/land use	
	ordinances to limit development in high-hazard	
	areas.	
Goal 3:	1. Identify the current risks of critical facilities and	
Reduce the damages and	infrastructure from hazards, and determine actions	
functional loss from natural	to lessen those risks in the future.	
and non-natural hazards to	2. Encourage and/or perform regular maintenance	
	and upgrades of existing drainage systems potentially	
existing and future public and	impacting critical facilities.	
private assets, including	3. Encourage and/or provide backup power resources	
structures, critical facilities,	(generators) for critical facilities.	
and infrastructure.	4. Encourage and/or perform maintenance and	
	updates to reduce long-term vulnerability to high	
	hazard potential dams.	

Propos	ed Goals and Objectives	Comments
Goal 4:	1. Encourage and/or provide maintenance and	Comments
Preserve and enhance the	restoration of streams and rivers and associated	
effectiveness of natural	floodplains to naturally provide flood mitigation.	
resources, including		
woodlands, streams, rivers,	2. Encourage regulation of and/or regulate	
wetlands, floodplains and	development in priority conservation areas, including	
riparian buffers to provide	floodplains, to minimize flood damage.	
resiliency benefits.		
Goal 5:	1. Thoroughly assess the community, established	
Develop, prioritize, and	capabilities, and identify specific cost-effective	
implement cost-effective,	actions for improvement, relative to existing and	
long-term actions that will	future hazard risks.	
reduce the impacts of natural	2. Establish mitigation action priorities, encourage,	
and non-natural hazards.	and track progress.	
Goal 6:	1. Better integrate hazard mitigation planning with	A CONTRACTOR OF THE CONTRACTOR
Improve local regulations to	comprehensive planning and land use regulations.	
reduce the impacts of natural	2. Identify and promote "best practices" for	
and non-natural hazards.	municipal regulation of land use in zoning and	
	subdivision ordinances and official maps.  3. Encourage proactive planning for potential hazard	
	events and potential related property damage.	
	Incorporate hazard mitigation planning into	
	existing municipal policy.	
Goal 7:	1. Continually improve communication capabilities,	
Enhance planning and	training, and coordination for hazard events.	
emergency response efforts	2. Continually improve the planning for shelters,	
among federal, state, county,	evacuation routes, and disaster recovery.	
and local emergency	3. Continue the promotion of disaster resiliency in the business community.	
management personnel to	the business community.	
protect public health and	4. Maintain and/or upgrade emergency response	
safety.	equipment and resources.	
,		

Propos	ed Goals and Objectives	Commonto
Goal 8: Improve local regulations to reduce the impacts of natural and non-natural hazards.	<ol> <li>Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.</li> <li>Encourage and/or provide public education programs for businesses, households, and individuals</li> </ol>	Comments
New Goal:	on mitigation, safety measures, and preparedness.  New Objective 1:	
	New Objective 2:	
	New Objective 3:	
	New Objective 4:	



# **Goal and Objective Review Worksheet**

			$\alpha$	
Community/Organization: Opere	ACUNQUE TOWNSH'D Name and	Title:	hrist	FIRE COMMISSIONER

Proposed Goals and Objectives		Comments	
Goal 1: Minimize the risk to human life associated with natural and non-natural hazards.	Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation planning and actions.      Continuously promote and maintain better early warning and emergency communications.		
	Provide added protection for vulnerable populations.		
Goal 2: Promote hazard avoidance, especially in floodplains.	<ol> <li>Minimize future risk of losses associated with structures, including repetitive loss structures.</li> <li>Reduce flooding potential through planning, training, and outreach.</li> <li>Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.</li> </ol>		
Goal 3: Reduce the damages and functional loss from natural	I. Identify the current risks of critical facilities and infrastructure from hazards, and determine actions to lessen those risks in the future.      Encourage and/or perform regular maintenance		
and non-natural hazards to existing and future public and	and upgrades of existing drainage systems potentially impacting critical facilities.		
private assets, including structures, critical facilities, and infrastructure.	<ul> <li>3. Encourage and/or provide backup power resources (generators) for critical facilities.</li> <li>4. Encourage and/or perform maintenance and updates to reduce long-term vulnerability to high</li> </ul>		
	hazard potential dams.		

Propose	ed Goals and Objectives	Comments
Goal 4: Preserve and enhance the effectiveness of natural	Encourage and/or provide maintenance and restoration of streams and rivers and associated floodplains to naturally provide flood mitigation.	
resources, including woodlands, streams, rivers, wetlands, floodplains and riparian buffers to provide resiliency benefits.	2. Encourage regulation of and/or regulate development in priority conservation areas, including floodplains, to minimize flood damage.	
Goal 5: Develop, prioritize, and implement cost-effective,	Thoroughly assess the community, established capabilities, and identify specific cost-effective actions for improvement, relative to existing and future hazard risks.	
long-term actions that will reduce the impacts of natural and non-natural hazards.	Establish mitigation action priorities, encourage, and track progress.	
Goal 6: Improve local regulations to reduce the impacts of natural	1. Better integrate hazard mitigation planning with comprehensive planning and land use regulations.      2. Identify and promote "best practices" for municipal regulation of land use in zoning and	
and non-natural hazards.	subdivision ordinances and official maps.  3. Encourage proactive planning for potential hazard events and potential related property damage.	
Goal 7:	4. Incorporate hazard mitigation planning into existing municipal policy.      1. Continually improve communication capabilities,	
Enhance planning and emergency response efforts	training, and coordination for hazard events.  2. Continually improve the planning for shelters, evacuation routes, and disaster recovery.	
among federal, state, county, and local emergency management personnel to	Continue the promotion of disaster resiliency in the business community.	
protect public health and safety.	Maintain and/or upgrade emergency response equipment and resources.	

Propose	ed Goals and Objectives	Comments		
Goal 8: Improve local regulations to reduce the impacts of natural	1. Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.			
and non-natural hazards.	2. Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.			
New Goal:	New Objective 1:			
	New Objective 2:			
	New Objective 3:			
	New Objective 4:			



Community/Organization: WENSENBERG

Name and Title:

FRANK BARTHOLOMEN ENC

Propose	ed Goals and Objectives	Comments
Goal 1:	1. Create a better understanding among the public	35111110110
Minimize the risk to human	and local governments of the benefits and	
life associated with natural	opportunities associated with hazard mitigation	
and non-natural hazards.	planning and actions.	
and non-natural mazarus.	2. Continuously promote and maintain better early	
	warning and emergency communications.	
	3. Provide added protection for vulnerable	
	populations.	
Goal 2:	Minimize future risk of losses associated with	
Promote hazard avoidance,	structures, including repetitive loss structures.	
especially in floodplains.	2. Reduce flooding potential through planning,	
, and a second second	training, and outreach.	
	3. Encourage and facilitate the development or	
	revision of comprehensive plans and zoning/land use	
	ordinances to limit development in high-hazard	
	areas.	
Goal 3:	Identify the current risks of critical facilities and	
Reduce the damages and	infrastructure from hazards, and determine actions	
functional loss from natural	to lessen those risks in the future.	
and non-natural hazards to	2. Encourage and/or perform regular maintenance	
existing and future public and	and upgrades of existing drainage systems potentially	
	impacting critical facilities.	
private assets, including	3. Encourage and/or provide backup power resources	
structures, critical facilities,	(generators) for critical facilities.	
and infrastructure.	4. Encourage and/or perform maintenance and	
	updates to reduce long-term vulnerability to high	
	hazard potential dams.	

Proposi	ed Goals and Objectives	Comments
Goal 4: Preserve and enhance the effectiveness of natural	Encourage and/or provide maintenance and restoration of streams and rivers and associated floodplains to naturally provide flood mitigation.	
resources, including woodlands, streams, rivers, wetlands, floodplains and riparian buffers to provide resiliency benefits.	2. Encourage regulation of and/or regulate development in priority conservation areas, including floodplains, to minimize flood damage.	
Goal 5: Develop, prioritize, and implement cost-effective, long-term actions that will	Thoroughly assess the community, established capabilities, and identify specific cost-effective actions for improvement, relative to existing and future hazard risks.	
reduce the impacts of natural and non-natural hazards.	Establish mitigation action priorities, encourage, and track progress.	
Goal 6:	Better integrate hazard mitigation planning with comprehensive planning and land use regulations.	
Improve local regulations to reduce the impacts of natural and non-natural hazards.	Identify and promote "best practices" for municipal regulation of land use in zoning and subdivision ordinances and official maps.	
	3. Encourage proactive planning for potential hazard events and potential related property damage.      4. Incorporate hazard mitigation planning into existing municipal policy.	
Goal 7:	Continually improve communication capabilities,	
Enhance planning and emergency response efforts among federal, state, county, and local emergency	training, and coordination for hazard events.  2. Continually improve the planning for shelters, evacuation routes, and disaster recovery.  3. Continue the promotion of disaster resiliency in	
management personnel to protect public health and safety.	4. Maintain and/or upgrade emergency response equipment and resources.	

Propose	ed Goals and Objectives	Comments
Goal 8: Improve local regulations to reduce the impacts of natural	1. Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.	
and non-natural hazards.	2. Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.	
New Goal:	New Objective 1:	
	New Objective 2:	
	New Objective 3:	
	New Objective 4:	



## **Goal and Objective Review Worksheet**

Community/Organization: Borough of Bangor	Name and Title:	Stephen Reider, Borough Manager
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Use the comment boxes to provide feedback or to suggest modification of any of the proposed goals or objectives. You may suggest additional objectives below each goal, or new goals and objectives on the last page of this exercise.

Propose	ed Goals and Objectives	Comments
Goal 1: Minimize the risk to human life associated with natural and non-natural hazards.	<ol> <li>Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation planning and actions.</li> <li>Continuously promote and maintain better early warning and emergency communications.</li> </ol>	
	Provide added protection for vulnerable populations.	
Goal 2: Promote hazard avoidance, especially in floodplains.	<ol> <li>Minimize future risk of losses associated with structures, including repetitive loss structures.</li> <li>Reduce flooding potential through planning, training, and outreach.</li> <li>Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.</li> </ol>	
Goal 3:  Reduce the damages and functional loss from natural and non-natural hazards to existing and future public and private assets, including structures, critical facilities,	<ol> <li>Identify the current risks of critical facilities and infrastructure from hazards, and determine actions to lessen those risks in the future.</li> <li>Encourage and/or perform regular maintenance and upgrades of existing drainage systems potentially impacting critical facilities.</li> <li>Encourage and/or provide backup power resources (generators) for critical facilities.</li> <li>Encourage and/or perform maintenance and</li> </ol>	
and infrastructure.	updates to reduce long-term vulnerability to high hazard potential dams.	

Propose	ed Goals and Objectives	Comments
Goal 4:	Encourage and/or provide maintenance and	
Preserve and enhance the	restoration of streams and rivers and associated	
effectiveness of natural	floodplains to naturally provide flood mitigation.	
resources, including		
woodlands, streams, rivers,	2. Encourage regulation of and/or regulate	
wetlands, floodplains and	development in priority conservation areas, including	
riparian buffers to provide	floodplains, to minimize flood damage.	
resiliency benefits.		
Goal 5:	Thoroughly assess the community, established	
Develop, prioritize, and	capabilities, and identify specific cost-effective	
implement cost-effective,	actions for improvement, relative to existing and	
long-term actions that will	future hazard risks.	
reduce the impacts of natural	2. Establish mitigation action priorities, encourage,	
and non-natural hazards.	and track progress.	
	Better integrate hazard mitigation planning with	
Goal 6:	comprehensive planning and land use regulations.	
Improve local regulations to	Identify and promote "best practices" for	
reduce the impacts of natural	municipal regulation of land use in zoning and	
and non-natural hazards.	subdivision ordinances and official maps.	
	3. Encourage proactive planning for potential hazard	
	events and potential related property damage.	
	4. Incorporate hazard mitigation planning into	
Goal 7:	existing municipal policy.  1. Continually improve communication capabilities,	
	training, and coordination for hazard events.	
Enhance planning and	Continually improve the planning for shelters,	
emergency response efforts	evacuation routes, and disaster recovery.	
among federal, state, county,	3. Continue the promotion of disaster resiliency in	
and local emergency	the business community.	
management personnel to	4. Maintain and/or upgrade emergency response	
protect public health and	equipment and resources.	
safety.		

Propose	ed Goals and Objectives	Comments
Goal 8: Improve local regulations to reduce the impacts of natural	1. Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.     2. Encourage and/or provide public education	
and non-natural hazards.	programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.	
New Goal:	New Objective 1:	
	New Objective 2:	
	New Objective 3:	
	New Objective 4:	



## **Goal and Objective Review Worksheet**

Community/Organization: Lower Mount Bethel

Name and Title:

Jennifer Smethers, Township
Manager/Treasurer/EMC

Use the comment boxes to provide feedback or to suggest modification of any of the proposed goals or objectives. You may suggest additional objectives below each goal, or new goals and objectives on the last page of this exercise.

Propose	ed Goals and Objectives	Comments
Goal 1: Minimize the risk to human life associated with natural and non-natural hazards.	Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation planning and actions.      Continuously promote and maintain better early warning and emergency communications.      Provide added protection for vulnerable populations.	
Goal 2: Promote hazard avoidance, especially in floodplains.	1. Minimize future risk of losses associated with structures, including repetitive loss structures.  2. Reduce flooding potential through planning, training, and outreach.  3. Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.	
Goal 3:  Reduce the damages and functional loss from natural and non-natural hazards to existing and future public and private assets, including	<ol> <li>Identify the current risks of critical facilities and infrastructure from hazards, and determine actions to lessen those risks in the future.</li> <li>Encourage and/or perform regular maintenance and upgrades of existing drainage systems potentially impacting critical facilities.</li> <li>Encourage and/or provide backup power resources (generators) for critical facilities.</li> </ol>	For goal 3, maybe add equipment

Propose	ed Goals and Objectives	Comments
structures, critical facilities, and infrastructure.	4. Encourage and/or perform maintenance and updates to reduce long-term vulnerability to high hazard potential dams.	
Goal 4: Preserve and enhance the effectiveness of natural	Encourage and/or provide maintenance and restoration of streams and rivers and associated floodplains to naturally provide flood mitigation.	
resources, including woodlands, streams, rivers, wetlands, floodplains and riparian buffers to provide resiliency benefits.	2. Encourage regulation of and/or regulate development in priority conservation areas, including floodplains, to minimize flood damage.	
Goal 5: Develop, prioritize, and implement cost-effective,	1. Thoroughly assess the community, established capabilities, and identify specific cost-effective actions for improvement, relative to existing and future hazard risks.	
long-term actions that will reduce the impacts of natural and non-natural hazards.	Establish mitigation action priorities, encourage, and track progress.	
Goal 6: Improve local regulations to reduce the impacts of natural	Better integrate hazard mitigation planning with comprehensive planning and land use regulations.     Identify and promote "best practices" for municipal regulation of land use in zoning and	
and non-natural hazards.	subdivision ordinances and official maps.  3. Encourage proactive planning for potential hazard events and potential related property damage.  4. Incorporate hazard mitigation planning into	
Goal 7:	existing municipal policy.  1. Continually improve communication capabilities,	
Enhance planning and emergency response efforts among federal, state, county,	training, and coordination for hazard events.  2. Continually improve the planning for shelters, evacuation routes, and disaster recovery.	
and local emergency	3. Continue the promotion of disaster resiliency in the business community.	

Propose	ed Goals and Objectives	Comments
management personnel to protect public health and safety.	4. Maintain and/or upgrade emergency response equipment and resources.	Identify grant sources to do this.
Goal 8: Improve local regulations to reduce the impacts of natural and non-natural hazards.	<ol> <li>Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.</li> <li>Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.</li> </ol>	
New Goal:	New Objective 1:	
	New Objective 2:	
	New Objective 3:	
	New Objective 4:	



## **Goal and Objective Review Worksheet**

Joseph Sipel Fire Chief

Community/Organization: Borough of Wilson Name and Title:

Use the comment boxes to provide feedback or to suggest modification of any of the proposed goals or objectives. You may suggest additional objectives below each goal, or new goals and objectives on the last page of this exercise.

Propose	ed Goals and Objectives	Comments
Goal 1: Minimize the risk to human life associated with natural	Create a better understanding among the public and local governments of the benefits and opportunities associated with hazard mitigation planning and actions.	No Change
and non-natural hazards.	Continuously promote and maintain better early warning and emergency communications.     Provide added protection for vulnerable	No Change
Cool 3:	populations.  1. Minimize future risk of losses associated with	-
Goal 2: Promote hazard avoidance,	structures, including repetitive loss structures.	No Change
especially in floodplains.	Reduce flooding potential through planning, training, and outreach.	No Change
	3. Encourage and facilitate the development or revision of comprehensive plans and zoning/land use ordinances to limit development in high-hazard areas.	No Change
Goal 3: Reduce the damages and functional loss from natural	Identify the current risks of critical facilities and infrastructure from hazards, and determine actions to lessen those risks in the future.	No Change
and non-natural hazards to existing and future public and	2. Encourage and/or perform regular maintenance and upgrades of existing drainage systems potentially impacting critical facilities.	No Change
private assets, including structures, critical facilities,	3. Encourage and/or provide backup power resources (generators) for critical facilities.	No Change
and infrastructure.	4. Encourage and/or perform maintenance and updates to reduce long-term vulnerability to high hazard potential dams.	No Change

Propose	ed Goals and Objectives	Comments
Goal 4: Preserve and enhance the	Encourage and/or provide maintenance and restoration of streams and rivers and associated	No Change
effectiveness of natural	floodplains to naturally provide flood mitigation.	
resources, including		No Change
woodlands, streams, rivers,	Encourage regulation of and/or regulate	
wetlands, floodplains and	development in priority conservation areas, including	
riparian buffers to provide	floodplains, to minimize flood damage.	
resiliency benefits.		
Goal 5:	Thoroughly assess the community, established	No Change
Develop, prioritize, and	capabilities, and identify specific cost-effective	No change
implement cost-effective,	actions for improvement, relative to existing and	
long-term actions that will	future hazard risks.	
reduce the impacts of natural	2. Establish mitigation action priorities, encourage,	No Change
and non-natural hazards.	and track progress.	
Goal 6:	Better integrate hazard mitigation planning with	No Change
Improve local regulations to	comprehensive planning and land use regulations.	
reduce the impacts of natural	2. Identify and promote "best practices" for	No Change
and non-natural hazards.	municipal regulation of land use in zoning and subdivision ordinances and official maps.	
	Subdivision ordinances and official maps.     Sent of the subdivision of differences and official maps.     Subdivision ordinances and official maps.	No Change
	events and potential related property damage.	No change
	4. Incorporate hazard mitigation planning into	No Change
	existing municipal policy.	
Goal 7:	1. Continually improve communication capabilities,	No Change
Enhance planning and	training, and coordination for hazard events.  2. Continually improve the planning for shelters,	No Change
emergency response efforts	evacuation routes, and disaster recovery.	No Change
among federal, state, county,	3. Continue the promotion of disaster resiliency in	No Change
and local emergency	the business community.	
management personnel to	4. Maintain and/or upgrade emergency response	No Change
protect public health and	equipment and resources.	
safety.		

Propose	ed Goals and Objectives	Comments
Goal 8: Improve local regulations to reduce the impacts of natural	1. Encourage and/or provide education and outreach to increase awareness of hazards and opportunities for mitigation.	No Change
and non-natural hazards.	2. Encourage and/or provide public education programs for businesses, households, and individuals on mitigation, safety measures, and preparedness.	No Change
New Goal:	New Objective 1:	
	New Objective 2:	
	New Objective 3:	
	New Objective 4:	





#### **Hazard Prioritization Matrix**

Community/Organization: Borough of Albertis

Name and Title: Stephen Nemeth, Borough Manager

**Purpose:** To determine the Risk Factor (RF) for each hazard.

Instructions: Review the Risk Factor calculations in the table below from the 2018 plan, which are based on the Degree of Risk definitions provided on the back of the worksheet. If you believe any of these risk factors need to be updated, please make note of those requested changes in the Notes column, the Comments space provided below, or directly in the table.

Natural Hazards	Probability	Impact	Extent	Warning	Duration	Notes
Extreme Temperature	3	3	3	1	3	Agree with rankings
Flood	4	2	2	3	3	Agree with rankings
Winter Storm	3	2	4	2	2	Agree with ranhings
Windstorm / Tornado	23	3	3	3	2	Pact like mindstorms are becoming more freque
Invasive Species	4	1	3	1	4	Feel like this is accurate
Drought	2	2	4	1	4	Agree with rankings
Pandemic/Infectious Disease	3	23	23	22	4	Get like on the rise with climate change
Radon	4	1	2	1	4	Agree With the rankings
Subsidence / Sinkhole	3	2	1	4	1	Agree with the rankings; But on the 1.2
Wildfire	2	2	2	3	2	Agree with ranking Bur on the rive
Lightning	4	1	1	3	1	Agree with ranking.
Earthquake	1	1	4	4	1	Agree with the rankings
Hailstorm	2	1	2	3	1	
Landslide	1	1	1	4	1	Agree with the rankings

Comments:

Flood; I believe one of the Biggest problems on the rise is people not obeying warning signs; then getting strick in Flooded readways infections Disease; I believe this will be more frequent with the rapid changes to our climate.

infections Disease; I believe this will be more frequent with the rapid changes to our climate.

overall - I believe many of these bazards can coincide with others as like a course/effect category; the extrem temps overall - I believe many of these bazards can coincide with others, and Floods.

have potential to increase the rates of throughts, wildfiles, infections Diseases, Sinkholes, and Floods.

Degree of Risk							
Level	Cri	teria	Index	Value			
Unlikely Possible		1 2	30%				
Likely	probability	3					
				200/			
Minor	property damage a	and minimal ty of life. Temporary		30%			
Limited	property in affected destroyed. Complete	d area damaged or te shutdown of	2				
Critical	Multiple deaths / i More than 25% of area damaged or c shutdown of critica	3					
Catastrophic	High number of de possible. More tha affected area dam Complete shutdow	4					
Negligible Small			1 2	20%			
Moderate	And the second s		3				
Large				100/			
More than 24 hours 12 to 24 hours 6 to 12 hours Less than 6 hours	Self-Defined Self-Defined Self-Defined Self-Defined Self-Defined Self-Defined Self-Defined Them may be adjusted based on the hazard		1 2 3 4	10%			
1 1 6	Calt Dating and		1	10%			
Less than 6 hours Less than 24 hours Less than 1 week More than 1 week	Self-Defined Self-Defined Self-Defined Self-Defined	warning time and criteria that define them may be adjusted based on the hazard	2 3 4	10%			
	Unlikely Possible  Likely  Highly Likely  Minor  Limited  Critical  Catastrophic  Negligible Small  Moderate Large  More than 24 hours 12 to 24 hours 12 to 24 hours Less than 6 hours Less than 6 hours Less than 1 week	Unlikely Possible  Likely  Likely  Likely  Between 1% and 4 probability  Between 50% and probability  Greater than 90% and probability  Minor  Very few injuries, i property damage a disruption on qualishutdown of critical shutdown of critical facilities for Multiple deaths / i More than 25% of area damaged or a shutdown of critical than a week.  Catastrophic  Critical  More than 25% of area damaged or a shutdown of critical than a week.  High number of depossible. More than affected area dam Complete shutdown for 30 days or more affected. Between 1% and 1 affected Between 11% and 1 affected.  Moderate  Large  Moderate  Large  More than 24 hours 12 to 24 hours 15 Self-Defined 16 Self-Defined 17 Self-Defined 18 Self-Defined 19 Self-Defined 19 Self-Defined 29 Self-Defined 20 Self-Defined 30 Self-Defined	Unlikely Possible  Likely  Likely  Between 1% and 49.9% annual probability Between 50% and 90% annual probability  Between 50% and 90% annual probability  Highly Likely  Minor  Very few injuries, if any. Only minor property damage and minimal disruption on quality of life. Temporary shutdown of critical facilities.  Minor injuries. More than 10% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than one day.  Multiple deaths / injuries possible.  More than 25% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than a week.  High number of deaths / injuries possible. More than 50% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than a week.  High number of deaths / injuries possible. More than 50% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for 30 days or more.  Negligible  Less than 1 50% of property in affected area affected  Between 11% and 10.9% of area affected  Between 11% and 25% of area affected  Between 11% and 25% of area affected  Moderate  Less than 24 hours  Self-Defined  Self-Defined  Self-Defined  Criteria that define them may be adjusted based on the hazard addressed.  Less than 6 hours  Self-Defined  Self-Defined  Self-Defined  Self-Defined  Self-Defined  Self-Defined  Criteria that define them may be adjusted based on criteria that define them may be adjusted based on them may be adjusted based o	Unlikely Possible Unlikely Possible Between 1% and 49.9% annual probability Between 50% and 90% annual probability Between 50% and 90% annual probability Greater than 90% annual probability For jew injuries, if any. Only minor property damage and minimal disruption on quality of life. Temporary shutdown of critical facilities.  Limited Minor injuries. More than 10% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than one day. Multiple deaths / injuries possible. More than 25% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than a week. High number of deaths / injuries possible. More than 50% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for 30 days or more.  Negligible Less than 1% of area affected Between 1% and 10.9% of area affected Moderate Large Greater than 25% of area affected Between 11% and 25% of area affected Is getween 11% and 25% of area affected Self-Defined Self-Defined Self-Defined Self-Defined Self-Defined Self-Defined Self-Defined Self-Defined Criteria that define Self-Defined Self-Defined Self-Defined Self-Defined Self-Defined Criteria that define Addressed.  Less than 6 hours Less than 1 week More than 2 warning time and A adjusted based on A the train that define A defersed More than 2 warning time and A adjusted based on A the train that define A defersed A warning time and A adjusted base			





## **Hazard Prioritization Matrix**

Community/Organization: Borough of Bangor Name and Title: Stephen Reider, Borough Manager

Purpose: To determine the Risk Factor (RF) for each hazard.

**Instructions:** Review the Risk Factor calculations in the table below from the 2018 plan, which are based on the Degree of Risk definitions provided on the back of the worksheet. If you believe any of these risk factors need to be updated, please make note of those requested changes in the Notes column, the Comments space provided below, or directly in the table.

Natural Hazards	Probability	Impact	Extent	Warning	Duration	Notes
Extreme Temperature	3	3	3	1	3	
Flood	4	2	2	3	3	
Winter Storm	3	2	4	2	2	
Windstorm / Tornado	2	3	3	3	2	
Invasive Species	4	1	3	1	4	
Drought	2	2	4	1	4	
Pandemic/Infectious Disease	3	2	2	1	4	
Radon	4	1	2	1	4	
Subsidence / Sinkhole	3	2	1	4	1	
Wildfire	2	2	2	3	2	
Lightning	4	1	1	3	1	
Earthquake	1	1	4	4	1	
Hailstorm	2	1	2	3	1	
Landslide	1	1	1	4	1	

Risk Assessment		Degree of Ris	sk		Weight
Category	Level	Cri	teria	Index	Value
<b>Probability:</b> What is the likelihood of a hazard	Unlikely Possible	Less than 1% annual Between 1% and 49 probability	1 2	30%	
event occurring in a given year?	Likely	Between 50% and sprobability	90% annual	3	
<i>σ</i> ,	Highly Likely	Greater than 90% a	annual probability	4	
	Minor	Very few injuries, in property damage a disruption on quali shutdown of critica	and minimal ty of life. Temporary	1	30%
Impact: In terms of injuries, damage, or death, would you	Limited	destroyed. Comple	d area damaged or	2	
anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs?	Critical	Multiple deaths / in More than 25% of area damaged or d shutdown of critical than a week.	3		
	Catastrophic	High number of de possible. More tha affected area dama Complete shutdow for 30 days or more	4		
Spatial Extent: How	Negligible	Less than 1% of are		1	20%
large of an area could be impacted by a hazard	Small	Between 1% and 10 affected		2	
event? Are impacts	Moderate		25% of area affected	3	
localized or regional?	Large	Greater than 25% of Self-Defined		4	100/
Warning Time: Is there	More than 24 hours 12 to 24 hours	Self-Defined	Note: Levels of warning time and	1 2	10%
usually some lead-time	6 to 12 hours	Self-Defined	criteria that define	3	
associated with the	Less than 6 hours	Self-Defined	them may be	4	
hazard event? Have warning measures been			adjusted based on		
implemented?			the hazard		
picinciaea.		0.15 0.5	addressed.		100/
	Less than 6 hours Less than 24 hours	Self-Defined Self-Defined	Note: Levels of	1	10%
<b>Duration:</b> How long does	Less than 24 hours	Self-Defined Self-Defined	warning time and criteria that define	2	
the hazard event usually	More than 1 week	Self-Defined	them may be	4	
last?	The triangle of triangle of the triangle of tr		adjusted based on		
			the hazard		
			addressed.		





## **Hazard Prioritization Matrix**

Community/Organization: Hanover Town Sif LC Name and Title: Chris Spadaccia EMC

Purpose: To determine the Risk Factor (RF) for each hazard.

Instructions: Review the Risk Factor calculations in the table below from the 2018 plan, which are based on the Degree of Risk definitions provided on the back of the worksheet. If you believe any of these risk factors need to be updated, please make note of those requested changes in the Notes column, the Comments space provided below, or directly in the table.

Natural Hazards	Probability	Impact	Extent	Warning	Duration	Notes
Extreme Temperature	3	3	3	1	3	
Flood	4	2	2	3	3	
Winter Storm	3	2	4	2	2	
Windstorm / Tornado	2	3	3	3	2	
Invasive Species	4	1	3	1	4	
Drought	2	2	4	1	4	
Pandemic/Infectious Disease	3	2	2	1	4	
Radon	4	1	2	1	4	
Subsidence / Sinkhole	34	2	1	4	12	
Wildfire	2	2	2	3	2	
Lightning	4	1	1	3	1	
Earthquake	1	1	4	4	1	X
Hailstorm	2	1	2	3	1	
Landslide	1	1	1	4	1	





## **Hazard Prioritization Matrix**

Community/Organization: Lehigh County Authority Name and Title: Liesel Gross, CEO

Purpose: To determine the Risk Factor (RF) for each hazard.

Instructions: Review the Risk Factor calculations in the table below from the 2018 plan, which are based on the Degree of Risk definitions provided on the back of the worksheet. If you believe any of these risk factors need to be updated, please make note of those requested changes in the Notes column, the Comments space provided below, or directly in the table.

Natural Hazards	Probability	Impact	Extent	Warning	Duration	Notes
Extreme Temperature	3	3	3	1	3	
Flood	4	2	(2)3	3	3	expanded extant
Winter Storm	3	2	4	2	2	
Windstorm / Tornado	2	3	3	3	2	
Invasive Species	4	1	3	1	4	
Drought	2	2	4	1	4	
Pandemic/Infectious Disease	3	(2) 3	2	£30%	4	expand impact/warmy-
Radon	4	1	2	1	4	read time
Subsidence / Sinkhole	3	2	1	4	1	rearly:
Wildfire	2	2	2	3	2	need to m
Lightning	4	1 ·	1	3	1	Opsed and federals
Earthquake	1	1	4	4	1	The could
Hailstorm	2	1	2	3	1	
Landslide	1	1	1	4	1	

1/18/34 Tom will send updates

Hazard Risk	Human-made (or Other) Hazards	Probability	Impact	Extend	Warning	Duration	Risk Factor
TIGZGI G TIGIC	Environmental Hazards	Trobubility	impact	EXTERIO	vvarring	Duration	Misk ractor
	Utility Interruption						
1	Gas / Liquid Pipelines	4	a	2	4	2	
	Drug Overdose						
	Urban Fire / Explosion						
	Transportation Crashes				1.0		
	Building Collapse						
	Civil Disturbance (Mass Gathering)						
	Dam Failure						
	Levee Failure						
	Terrorism					18	
X	Cyber-Terrorism	4	<b>8</b> 3	3	4	4	
	Nuclear Incident		T to				

#### **13 TOTAL Hazards**

- added Gas / Liquid Pipelines
- edited Mass Gathering to Civil Disturbance
- added Explosion to Urban Fire





#### **Hazard Prioritization Matrix**

Community/Organization: Lower Mount Bethel Township Name and Title: Jennifer Smethers, Manager/EMC

Purpose: To determine the Risk Factor (RF) for each hazard.

**Instructions:** Review the Risk Factor calculations in the table below from the 2018 plan, which are based on the Degree of Risk definitions provided on the back of the worksheet. If you believe any of these risk factors need to be updated, please make note of those requested changes in the Notes column, the Comments space provided below, or directly in the table.

Natural Hazards	Probability	Impact	Extent	Warning	Duration	Notes
Extreme Temperature	3	3	3	1	3	
Flood	4	2	2	3	3	For LMBT, I'd bump up all but Warning time
Winter Storm	3	2	4	2	2	
Windstorm / Tornado	2	3	3	3	2	
Invasive Species	4	1	3	1	4	
Drought	2	2	4	1	4	
Pandemic/Infectious Disease	3	2	2	1	4	Prob - 2
Radon	4	1	2	1	4	
Subsidence / Sinkhole	3	2	1	4	1	Impact - 3
Wildfire	2	2	2	3	2	
Lightning	4	1	1	3	1	
Earthquake	1	1	4	4	1	
Hailstorm	2	1	2	3	1	Prob - 3
Landslide	1	1	1	4	1	Prob -2, Extent 2

#### Comments:

We have steep slopes along road that have had landslides and they are very likely to continue with impacts on roads, stream and access.

Risk Assessment		Degree of Ris	sk		Weight
Category	Level	Cri	teria	Index	Value
<b>Probability:</b> What is the likelihood of a hazard	Unlikely Possible	Less than 1% annual Between 1% and 49 probability	1 2	30%	
event occurring in a given year?	Likely	Between 50% and sprobability	90% annual	3	
<i>σ</i> ,	Highly Likely	Greater than 90% a	annual probability	4	
	Minor	Very few injuries, in property damage a disruption on quali shutdown of critica	and minimal ty of life. Temporary	1	30%
Impact: In terms of injuries, damage, or death, would you	Limited	destroyed. Comple	d area damaged or	2	
anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs?	Critical	Multiple deaths / in More than 25% of area damaged or d shutdown of critical than a week.	3		
	Catastrophic	High number of de possible. More tha affected area dama Complete shutdow for 30 days or more	4		
Spatial Extent: How	Negligible	Less than 1% of are		1	20%
large of an area could be impacted by a hazard	Small	Between 1% and 10 affected		2	
event? Are impacts	Moderate		25% of area affected	3	
localized or regional?	Large	Greater than 25% of Self-Defined		4	100/
Warning Time: Is there	More than 24 hours 12 to 24 hours	Self-Defined	Note: Levels of warning time and	1 2	10%
usually some lead-time	6 to 12 hours	Self-Defined	criteria that define	3	
associated with the	Less than 6 hours	Self-Defined	them may be	4	
hazard event? Have warning measures been			adjusted based on		
implemented?			the hazard		
picinciaea.		0.15 0.5	addressed.		100/
	Less than 6 hours Less than 24 hours	Self-Defined Self-Defined	Note: Levels of	1	10%
<b>Duration:</b> How long does	Less than 24 hours	Self-Defined Self-Defined	warning time and criteria that define	2	
the hazard event usually	More than 1 week	Self-Defined	them may be	4	
last?	The triangle of triangle of the triangle of tr		adjusted based on		
			the hazard		
			addressed.		





## **Hazard Prioritization Matrix**

Community/Organization: TATAMY BURBUGH Name and Title: DUNAU DEREAMY - SMC

Purpose: To determine the Risk Factor (RF) for each hazard.

Instructions: Review the Risk Factor calculations in the table below from the 2018 plan, which are based on the Degree of Risk definitions provided on the back of the worksheet. If you believe any of these risk factors need to be updated, please make note of those requested changes in the Notes column, the Comments space provided below, or directly in the table.

Natural Hazards	Probability	Impact	Extent	Warning	Duration	Notes
Extreme Temperature	3	3	3	1	3	
Flood	4	2	2	3	3	
Winter Storm	3	2	4	2	2	
Windstorm / Tornado	2	3	3	3	2	
Invasive Species	4	1	3	1	4	
Drought	2	2	4	1	4	
Pandemic/Infectious Disease	3	2	2	1	4	
Radon	4	1	2	1	4	
Subsidence / Sinkhole	3	2	1	4	1	
Wildfire	2	2	2	3	2	
Lightning	4	1	1	3	1	
Earthquake	1	1	4	4	1	
Hailstorm	2	1	2	3	1	
Landslide	1	1	1	4	1	

Risk Assessment		Degree of R	isk		Weight
Category	Level	Cı	riteria	Index	Value
<b>Probability:</b> What is the likelihood of a hazard	Unlikely Possible	ssible Between 1% and 49.9% annual			
event occurring in a given year?	Likely	probability Between 50% and probability	90% annual	3	
	Highly Likely	Greater than 90%	annual probability	4	
Impact: In terms of injuries, damage, or death, would you anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event	Minor  Limited  Critical	Very few injuries, property damage disruption on qual shutdown of critic Minor injuries. Mo property in affecte destroyed. Comple critical facilities fo Multiple deaths / More than 25% of area damaged or o shutdown of critical	2	30%	
occurs?	Catastrophic	affected area dam	in 50% of property in aged or destroyed.	4	
Spatial Extent: How large of an area could be	Negligible Small	Less than 1% of are Between 1% and 1	ea affected	1 2	20%
impacted by a hazard event? Are impacts localized or regional?	Moderate Large	affected Between 11% and Greater than 25%	25% of area affected of area affected	3	
Warning Time: Is there usually some lead-time associated with the hazard event? Have warning measures been implemented?	More than 24 hours 12 to 24 hours 6 to 12 hours Less than 6 hours	Self-Defined Self-Defined Self-Defined Self-Defined	1 2 3 4	10%	
<b>Duration:</b> How long does the hazard event usually last?	Less than 6 hours Less than 24 hours Less than 1 week More than 1 week	Self-Defined Self-Defined Self-Defined Self-Defined	addressed.  Note: Levels of warning time and criteria that define them may be adjusted based on the hazard addressed.	1 2 3 4	10%





## **Hazard Prioritization Matrix**

Community/Organization:

WRISEN BENG

Name and Title:

FRANK BARTHOLOMEW

Ema

Purpose: To determine the Risk Factor (RF) for each hazard.

Instructions: Review the Risk Factor calculations in the table below from the 2018 plan, which are based on the Degree of Risk definitions provided on the back of the worksheet. If you believe any of these risk factors need to be updated, please make note of those requested changes in the Notes column, the Comments space provided below, or directly in the table.

Natural Hazards	Probability	Impact	Extent	Warning	Duration	Notes
Extreme Temperature	3	3	3	1	2	
Flood	4	2	2	3	3	
Winter Storm	3	2	4		3	
Windstorm / Tornado	2	3		2	2	
Invasive Species	4	1	3	3	2	
Drought	2	1	3	1	4	
Pandemic/Infectious Disease		2	4	1	4	
Radon	3	2	2	1	4	
Subsidence / Sinkhole	4	1	21	1	4	Extent 1 many properties impacted
	3/	2	1	4	1	Probability V, likery 2
Wildfire	2	2	2	3	2	Trought I Treng of
Lightning	4	1	1	3	1	
Earthquake	1	1	4	4	1	
Hailstorm	2	1	2	3	1	
Landslide	1	1	1	4	1	





## **Hazard Prioritization Matrix**

**Joseph Sipel Fire Chief** 

Community/Organization:

Borough of Wilson

Name and Title:

Purpose: To determine the Risk Factor (RF) for each hazard.

**Instructions:** Review the Risk Factor calculations in the table below from the 2018 plan, which are based on the Degree of Risk definitions provided on the back of the worksheet. If you believe any of these risk factors need to be updated, please make note of those requested changes in the Notes column, the Comments space provided below, or directly in the table.

Natural Hazards	Probability	Impact	Extent	Warning	Duration	Notes
Extreme Temperature	3	3	3	1	3	No change
Flood	4	2	2	3	3	No change
Winter Storm	3	2	4	2	2	No change
Windstorm / Tornado	2	3	3	3	2	No change
Invasive Species	4	1	3	1	4	No change
Drought	2	2	4	1	4	No change
Pandemic/Infectious Disease	3	2	2	1	4	No change
Radon	4	1	2	1	4	No change
Subsidence / Sinkhole	3	2	1	4	1	No change
Wildfire	2	2	2	3	2	No change
Lightning	4	1	1	3	1	No change
Earthquake	1	1	4	4	1	No change
Hailstorm	2	1	2	3	1	No change
Landslide	1	1	1	4	1	No change

Risk Assessment	Degree of Risk				Weight
Category	Level	Cri	teria	Index	Value
<b>Probability:</b> What is the likelihood of a hazard	Unlikely Possible	Less than 1% annu Between 1% and 4 probability		1 2	30%
event occurring in a given year?	Likely	Between 50% and probability	90% annual	3	
<i>σ</i> ,	Highly Likely	Greater than 90% a	annual probability	4	
	Minor	Very few injuries, in property damage and disruption on qualic shutdown of critical	and minimal ty of life. Temporary	1	30%
Impact: In terms of injuries, damage, or death, would you	Limited	destroyed. Comple	d area damaged or	2	
anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs?	Critical	Multiple deaths / i More than 25% of area damaged or d	· ·	3	
	Catastrophic	High number of de possible. More tha affected area dama	n 50% of property in aged or destroyed.	4	
Spatial Extent: How	Negligible	Less than 1% of are		1	20%
large of an area could be impacted by a hazard	Small	Between 1% and 1 affected		2	
event? Are impacts localized or regional?	Moderate	Greater than 25%	25% of area affected	3	
Warning Time: Is there usually some lead-time associated with the hazard event? Have warning measures been	More than 24 hours 12 to 24 hours 6 to 12 hours Less than 6 hours	Self-Defined Self-Defined Self-Defined Self-Defined	Note: Levels of warning time and criteria that define them may be adjusted based on the hazard	1 2 3 4	10%
implemented?	Leave the second	C.I.C.	addressed.		4.007
<b>Duration:</b> How long does the hazard event usually last?	Less than 6 hours Less than 24 hours Less than 1 week More than 1 week	Self-Defined Self-Defined Self-Defined Self-Defined	Note: Levels of warning time and criteria that define them may be adjusted based on the hazard addressed.	1 2 3 4	10%





## **Strategy Assessment Survey**

Community/Organization: Borough of Albertis

Name and Title: Stephen Nemeth, Borough

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action *categories* identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	5
<b>G</b>	Conduct storm drainage and flood control projects at critical facilities, including relocation	5 4
	Conduct storm drainage and flooding projects at non-critical facilities	4
	Restore or stabilize streams and floodplain	5
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	5 5 5
Compliance	Participate in the Community Rating System	5
	Obtain/archive elevation certificates	5
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	5
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	3
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	5
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	5
	Continue to support implementation, monitoring, maintenance and updating of the plan	4
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	5 5 5
	Integrate hazard mitigation into local plans and ordinances	5
	Increase emergency notifications, communication, and traffic control capabilities	5
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	5
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	5
Hazard Action	Reduce risk associated with high-hazard potential dams	3
Categories	Reduce risk associated with other dams and levees	3
Other Natural	Replace or retrofit bridges	4
Hazard	Reduce risk associated with wildfire	3
Categories	Install backup power at critical facilities	4
	Conduct other non-flood-related retrofits of critical facilities	4
	Work to minimize tree/electric line conflicts	5
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	4
	Purchase or relocate structures in hazard prone areas	3

Action Category Group	Action Category	Priority Score
Additions Since 2018	Through of Alburtis See Committee Co	
Plan		

# **Strategy Assessment Survey**





Community/Organization:

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,	-		/ //

Name and Title:

Gary Krill EME

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	
	Conduct storm drainage and flood control projects at critical facilities, including relocation	
	Conduct storm drainage and flooding projects at non-critical facilities	
	Restore or stabilize streams and floodplain	
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	
Compliance	Participate in the Community Rating System	
	Obtain/archive elevation certificates	
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	
	Continue to support implementation, monitoring, maintenance and updating of the plan	
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	
	Integrate hazard mitigation into local plans and ordinances	
	Increase emergency notifications, communication, and traffic control capabilities	
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	
Hazard Action	Reduce risk associated with high-hazard potential dams	
Categories	Reduce risk associated with other dams and levees	
Other Natural	Replace or retrofit bridges	
Hazard	Reduce risk associated with wildfire	
Categories	Install backup power at critical facilities	
	Conduct other non-flood-related retrofits of critical facilities	
	Work to minimize tree/electric line conflicts	
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	
	Purchase or relocate structures in hazard prone areas	

Action Category Group	Action Category	Priority Score
Additions Since 2018 Plan		





## **Strategy Assessment Survey**

**Community/Organization:** 

Borough of Bangor

Name and Title:

Stephen Reider, Borough Manager

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	5
	Conduct storm drainage and flood control projects at critical facilities, including relocation	
	Conduct storm drainage and flooding projects at non-critical facilities	
	Restore or stabilize streams and floodplain	
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	4
Compliance	Participate in the Community Rating System	
	Obtain/archive elevation certificates	
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	
Capability	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified	2
and Capacity Building	damage assessment personnel  Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	
	Continue to support implementation, monitoring, maintenance and updating of the plan	
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	
	Integrate hazard mitigation into local plans and ordinances	
	Increase emergency notifications, communication, and traffic control capabilities	
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	1
Hazard Action	Reduce risk associated with high-hazard potential dams	
Categories	Reduce risk associated with other dams and levees	
Other Natural	Replace or retrofit bridges	3
Hazard	Reduce risk associated with wildfire	
Categories	Install backup power at critical facilities	
	Conduct other non-flood-related retrofits of critical facilities	
	Work to minimize tree/electric line conflicts	
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	

Action Category Group	Action Category	Priority Score
	Purchase or relocate structures in hazard prone areas	
Additions		
Since 2018		
Plan		

# **Strategy Assessment Survey**





Community/Organization: arty of Bethle hem

Name and Title:

NOVATUACK

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	5 5 5
gae	Conduct storm drainage and flood control projects at critical facilities, including relocation	5
	Conduct storm drainage and flooding projects at non-critical facilities	5
	Restore or stabilize streams and floodplain	4
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	5
Compliance	Participate in the Community Rating System	3
	Obtain/archive elevation certificates	3
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	5
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	1
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	2
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	2 み 3
	Continue to support implementation, monitoring, maintenance and updating of the plan	3
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	2
	Integrate hazard mitigation into local plans and ordinances	1
	Increase emergency notifications, communication, and traffic control capabilities	5
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	2
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	2
Hazard Action	Reduce risk associated with high-hazard potential dams	/
Categories	Reduce risk associated with other dams and levees	1
Other Natural	Replace or retrofit bridges	1
Hazard	Reduce risk associated with wildfire	2
Categories	Install backup power at critical facilities	5
	Conduct other non-flood-related retrofits of critical facilities	4
	Work to minimize tree/electric line conflicts	5
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	5
	Purchase or relocate structures in hazard prone areas	2

Action Category Group	Action Category	Priority Score
Additions Since 2018 Plan		

# **Strategy Assessment Survey**





Community/Organization: CITY OF ENTUR

Name and Title:

19 LING TILLMAN

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	5
	Conduct storm drainage and flood control projects at critical facilities, including relocation	3
	Conduct storm drainage and flooding projects at non-critical facilities	1
	Restore or stabilize streams and floodplain	3
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	
Compliance	Participate in the Community Rating System	2
	Obtain/archive elevation certificates	7
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	5
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	4
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	3
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	4
	Continue to support implementation, monitoring, maintenance and updating of the plan	4
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	3
	Integrate hazard mitigation into local plans and ordinances	4
	Increase emergency notifications, communication, and traffic control capabilities	5
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	3
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	5
Hazard Action	Reduce risk associated with high-hazard potential dams	2
Categories	Reduce risk associated with other dams and levees	4
Other Natural	Replace or retrofit bridges	-
Hazard	Reduce risk associated with wildfire	3
Categories	Install backup power at critical facilities	F
	Conduct other non-flood-related retrofits of critical facilities	5
	Work to minimize tree/electric line conflicts	2
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	2
	Purchase or relocate structures in hazard prone areas	3

Action	O TOTAL TOPUALE	
Category Group	Action Category	Priority Score
Additions Since 2018 Plan		

# **Strategy Assessment Survey**





Community/Organization: CSTY of EASTON

Name and Title: CARL A. MANGES RANNENS

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	
3	Conduct storm drainage and flood control projects at critical facilities, including relocation	3
	Conduct storm drainage and flooding projects at non-critical facilities	
	Restore or stabilize streams and floodplain	
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	3
Compliance	Participate in the Community Rating System	2
	Obtain/archive elevation certificates	2
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	5
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	3
Capability and Capacity Building	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	3
	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	3
	Continue to support implementation, monitoring, maintenance and updating of the plan	3
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	2
	Integrate hazard mitigation into local plans and ordinances	4
	Increase emergency notifications, communication, and traffic control capabilities	4
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	3
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	3
Hazard Action	Reduce risk associated with high-hazard potential dams	3
Categories	Reduce risk associated with other dams and levees	2
Other Natural	Replace or retrofit bridges	3
Hazard	Reduce risk associated with wildfire	
Categories	Install backup power at critical facilities	1
	Conduct other non-flood-related retrofits of critical facilities	1
	Work to minimize tree/electric line conflicts	1
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	4
	Purchase or relocate structures in hazard prone areas	2

Action Category Group	Action Category	Priority Score
Additions Since 2018 Plan		

# **Strategy Assessment Survey**





Community/Organization: Hanover Township LC Name and Title: Chris Spadaccia Emc

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	1
	Conduct storm drainage and flood control projects at critical facilities, including relocation	1
	Conduct storm drainage and flooding projects at non-critical facilities	1
L .	Restore or stabilize streams and floodplain	1
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	1
Compliance	Participate in the Community Rating System	1
	Obtain/archive elevation certificates	1
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	1
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	1
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	1 3
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	3
	Continue to support implementation, monitoring, maintenance and updating of the plan	3
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	3
	Integrate hazard mitigation into local plans and ordinances	1
	Increase emergency notifications, communication, and traffic control capabilities	4
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	4
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	3
lazard Action	Reduce risk associated with high-hazard potential dams	1
Categories	Reduce risk associated with other dams and levees	1
Other Natural	Replace or retrofit bridges	1
Hazard	Reduce risk associated with wildfire	1
Categories	Install backup power at critical facilities	立
	Conduct other non-flood-related retrofits of critical facilities	1
	Work to minimize tree/electric line conflicts	3
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	3
	Purchase or relocate structures in hazard prone areas	<u>a</u>

Action Category Group	Action Category	Priority Score
Additions Since 2018 Plan	None	

# **Strategy Assessment Survey**





Community/Organization:

LEHIGH TWP Norco

Name and Title:

SCOTT REHER EMC

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	
	Conduct storm drainage and flood control projects at critical facilities, including relocation	
	Conduct storm drainage and flooding projects at non-critical facilities	
	Restore or stabilize streams and floodplain	
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	
Compliance	Participate in the Community Rating System	
	Obtain/archive elevation certificates	
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	
	Continue to support implementation, monitoring, maintenance and updating of the plan	
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	
	Integrate hazard mitigation into local plans and ordinances	
	Increase emergency notifications, communication, and traffic control capabilities	
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	
Hazard Action	Reduce risk associated with high-hazard potential dams	
Categories	Reduce risk associated with other dams and levees	
Other Natural	Replace or retrofit bridges	
Hazard	Reduce risk associated with wildfire	
Categories	Install backup power at critical facilities	
	Conduct other non-flood-related retrofits of critical facilities	
	Work to minimize tree/electric line conflicts	
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	
	Purchase or relocate structures in hazard prone areas	

Action Category Group	Action Category	Priority Score
Additions Since 2018 Plan		

# **Strategy Assessment Survey**





Community/Organization:

Lehigh TWP

Name and Title: Michael Rehnz, Deputy En

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	
witigation	Conduct storm drainage and flood control projects at critical facilities, including relocation	
	Conduct storm drainage and flooding projects at non-critical facilities	
	Restore or stabilize streams and floodplain	
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	
Compliance	Participate in the Community Rating System	
	Obtain/archive elevation certificates	
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	
	Continue to support implementation, monitoring, maintenance and updating of the plan	
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	
	Integrate hazard mitigation into local plans and ordinances	
	Increase emergency notifications, communication, and traffic control capabilities	
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	
Hazard Action	Reduce risk associated with high-hazard potential dams	
Categories	Reduce risk associated with other dams and levees	
Other Natural	Replace or retrofit bridges	
Hazard	Reduce risk associated with wildfire	
Categories	Install backup power at critical facilities	
	Conduct other non-flood-related retrofits of critical facilities	
	Work to minimize tree/electric line conflicts	
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	
	Purchase or relocate structures in hazard prone areas	

Action Category Group	Action Category	Priority Score
Additions Since 2018 Plan		





## **Strategy Assessment Survey**

**Community/Organization:** 

**Lower Mount Bethel** 

Name and Title:

Jennifer Smethers, Manager/EMC

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	5
,g	Conduct storm drainage and flood control projects at critical facilities, including relocation	5
	Conduct storm drainage and flooding projects at non-critical facilities	2
	Restore or stabilize streams and floodplain	4
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	3
Compliance	Participate in the Community Rating System	3
	Obtain/archive elevation certificates	3
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	5
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	4
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	5
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	4
	Continue to support implementation, monitoring, maintenance and updating of the plan	3
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	4
	Integrate hazard mitigation into local plans and ordinances	3
	Increase emergency notifications, communication, and traffic control capabilities	3
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	3
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	2
Hazard Action	Reduce risk associated with high-hazard potential dams	4
Categories	Reduce risk associated with other dams and levees	3
Other Natural	Replace or retrofit bridges	4
Hazard	Reduce risk associated with wildfire	4
Categories	Install backup power at critical facilities	5
	Conduct other non-flood-related retrofits of critical facilities	5
	Work to minimize tree/electric line conflicts	5
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	5

Action Category Group	Action Category	Priority Score
	Purchase or relocate structures in hazard prone areas	4
Additions Since 2018		
Plan		







Community/Organization: N. CaTASAUGUA Borough

Name and Title:

Greg Scheirer EMC

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	N/A
Willigation	Conduct storm drainage and flood control projects at critical facilities, including relocation	NA
	Conduct storm drainage and flooding projects at non-critical facilities	4
	Restore or stabilize streams and floodplain	NA
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	52
Compliance	Participate in the Community Rating System	2
	Obtain/archive elevation certificates	2
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	3
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	N/A.
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	5
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	5
	Continue to support implementation, monitoring, maintenance and updating of the plan	5
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	5 5 5
	Integrate hazard mitigation into local plans and ordinances	5
	Increase emergency notifications, communication, and traffic control capabilities	5
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	5
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	5
lazard Action	Reduce risk associated with high-hazard potential dams	5
Categories	Reduce risk associated with other dams and levees	5
Other Natural	Replace or retrofit bridges	NA
Hazard	Reduce risk associated with wildfire	3
Categories	Install backup power at critical facilities	5
0	Conduct other non-flood-related retrofits of critical facilities	2
	Work to minimize tree/electric line conflicts	3
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	3
	Purchase or relocate structures in hazard prone areas	N/A

Action Category Group	Action Category	Priority Score
Additions Since 2018 Plan		

# **Strategy Assessment Survey**





**Community/Organization:** 

North Whitehall Tup

Name and Title:

Don Jacobs D. EMC.

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	
	Conduct storm drainage and flood control projects at critical facilities, including relocation	
	Conduct storm drainage and flooding projects at non-critical facilities	
	Restore or stabilize streams and floodplain	
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	
Compliance	Participate in the Community Rating System	
	Obtain/archive elevation certificates	
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	
	Continue to support implementation, monitoring, maintenance and updating of the plan	
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	
	Integrate hazard mitigation into local plans and ordinances	
	Increase emergency notifications, communication, and traffic control capabilities	
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	
Hazard Action	Reduce risk associated with high-hazard potential dams	
Categories	Reduce risk associated with other dams and levees	
Other Natural	Replace or retrofit bridges	
Hazard	Reduce risk associated with wildfire	
Categories	Install backup power at critical facilities	
	Conduct other non-flood-related retrofits of critical facilities	
	Work to minimize tree/electric line conflicts	
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	
	Purchase or relocate structures in hazard prone areas	

Action Category Group	Action Category	Priority Score
Additions Since 2018 Plan		
2.		





# **Strategy Assessment Survey**

Community/Organization: South, Whitehall Tusp.

Name and Title:

John 6 Frant Fire Marshal

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	3
Mingation	Conduct storm drainage and flood control projects at critical facilities, including relocation	4
	Conduct storm drainage and flooding projects at non-critical facilities	5
	Restore or stabilize streams and floodplain	4
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	3
Compliance	Participate in the Community Rating System	2
	Obtain/archive elevation certificates	2
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	5
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	3
Capability	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	3
and Capacity Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	3
	Continue to support implementation, monitoring, maintenance and updating of the plan	3
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	4
	Integrate hazard mitigation into local plans and ordinances	3
	Increase emergency notifications, communication, and traffic control capabilities	5
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	3
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	3
Hazard Action	Reduce risk associated with high-hazard potential dams	2
Categories	Reduce risk associated with other dams and levees	2
Other Natural	Replace or retrofit bridges	5
Hazard	Reduce risk associated with wildfire	2
Categories	Install backup power at critical facilities	5
	Conduct other non-flood-related retrofits of critical facilities	2
	Work to minimize tree/electric line conflicts	5
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	3
	Purchase or relocate structures in hazard prone areas	3

Action Category Group	Action Category	Priority Score
Additions Since 2018 Plan		
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Community/Organization:	1	DOER /	ACUNG	رد	lowsH.p

Name and Title:

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	3
Willigation	Conduct storm drainage and flood control projects at critical facilities, including relocation	Z 4 3 4
	Conduct storm drainage and flooding projects at non-critical facilities	4
	Restore or stabilize streams and floodplain	3
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	4
Compliance	Participate in the Community Rating System	3
	Obtain/archive elevation certificates	2
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	5
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	Z
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	4
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	3
	Continue to support implementation, monitoring, maintenance and updating of the plan	4
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	5
	Integrate hazard mitigation into local plans and ordinances	4
	Increase emergency notifications, communication, and traffic control capabilities	4
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	3
Human-	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	3
Caused	Reduce risk associated with high-hazard potential dams	2
Hazard Action Categories	Reduce risk associated with other dams and levees	2
Other Natural	Replace or retrofit bridges	2
Hazard Categories	Reduce risk associated with wildfire	2
	Install backup power at critical facilities	Z 3 2
	Conduct other non-flood-related retrofits of critical facilities	-
	Work to minimize tree/electric line conflicts	4
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	3
	Purchase or relocate structures in hazard prone areas	2

Action Category Group	Action Category	Priority Score
Additions Since 2018 Plan		

# **Strategy Assessment Survey**





Community/Organization: Upper Milford Township

Name and Title: Kyle walbort - Assistant Zoning Officer

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	5
	Conduct storm drainage and flood control projects at critical facilities, including relocation	5
	Conduct storm drainage and flooding projects at non-critical facilities	3
	Restore or stabilize streams and floodplain	4
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	4
Compliance	Participate in the Community Rating System	
	Obtain/archive elevation certificates	3
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	3
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	3
Capability and Capacity Building	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	2
	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	1
	Continue to support implementation, monitoring, maintenance and updating of the plan	3
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	2
	Integrate hazard mitigation into local plans and ordinances	
	Increase emergency notifications, communication, and traffic control capabilities	2
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	4
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	3
lazard Action	Reduce risk associated with high-hazard potential dams	1
Categories	Reduce risk associated with other dams and levees	1
Other Natural	Replace or retrofit bridges	U
Hazard	Reduce risk associated with wildfire	7
Categories	Install backup power at critical facilities	3
	Conduct other non-flood-related retrofits of critical facilities	2
	Work to minimize tree/electric line conflicts	4
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	4
	Purchase or relocate structures in hazard prone areas	3

Action Category Group	Action Category	Priority Score
Additions Since 2018 Plan		





## **Strategy Assessment Survey**

Joseph Sipel Fire Chief

Community/Organization:

Borough of Wilson

Name and Title:

A key feature of a hazard mitigation strategy is prioritization, identifying which mitigation actions are the most important. In lieu of prioritizing more than 1,100 actions individually, the actions have been grouped into the mitigation action categories identified in the table below. Please assign each of the following mitigation action categories a priority score between 1 and 5 (with 1 being the lowest priority and 5 being the highest). In the final plan, each action will be assigned a prioritization based on its action category.

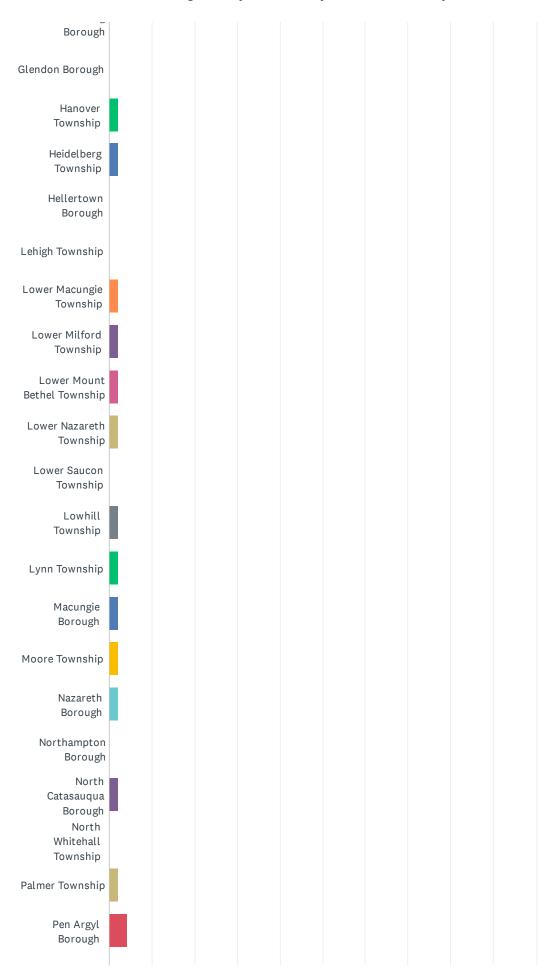
Action Category Group	Action Category	Priority Score
Flood Mitigation	Retrofit structures in flood-prone areas, with emphasis on repetitive loss and severe repetitive loss properties	2
	Conduct storm drainage and flood control projects at critical facilities, including relocation	2
	Conduct storm drainage and flooding projects at non-critical facilities	2
	Restore or stabilize streams and floodplain	1
NFIP	Create opportunities for continuing education and certifications for Floodplain Administrators	4
Compliance	Participate in the Community Rating System	3
	Obtain/archive elevation certificates	4
	Maintain compliance with the National Flood Insurance Program, including enforcement of floodplain management requirements, floodplain identification and mapping, and flood insurance outreach	4
	Begin and/or continue the process of adopting higher regulation of floodplains and carbonate bedrock areas	4
Capability and Capacity	Improve post-disaster capabilities, including processing FEMA/PEMA paperwork and qualified damage assessment personnel	4
Building	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations	5
	Continue to support implementation, monitoring, maintenance and updating of the plan	4
	Work with regional agencies to develop damage assessment capabilities through training programs, certification of qualified individuals such as floodplain managers	3
	Integrate hazard mitigation into local plans and ordinances	4
	Increase emergency notifications, communication, and traffic control capabilities	3
	Conduct and facilitate community and public outreach for residents and businesses to promote hazard risk reduction	3
Human- Caused	Conduct hazardous materials mitigation projects, including inventories, planning, education, and certifications	3
Hazard Action	Reduce risk associated with high-hazard potential dams	1
Categories	Reduce risk associated with other dams and levees	1
Other Natural	Replace or retrofit bridges	4
Hazard	Reduce risk associated with wildfire	1
Categories	Install backup power at critical facilities	3
	Conduct other non-flood-related retrofits of critical facilities	3
	Work to minimize tree/electric line conflicts	4
	Conduct geotechnical/sinkhole evaluation (adopt construction standards, remediation)	4
	Purchase or relocate structures in hazard prone areas	1

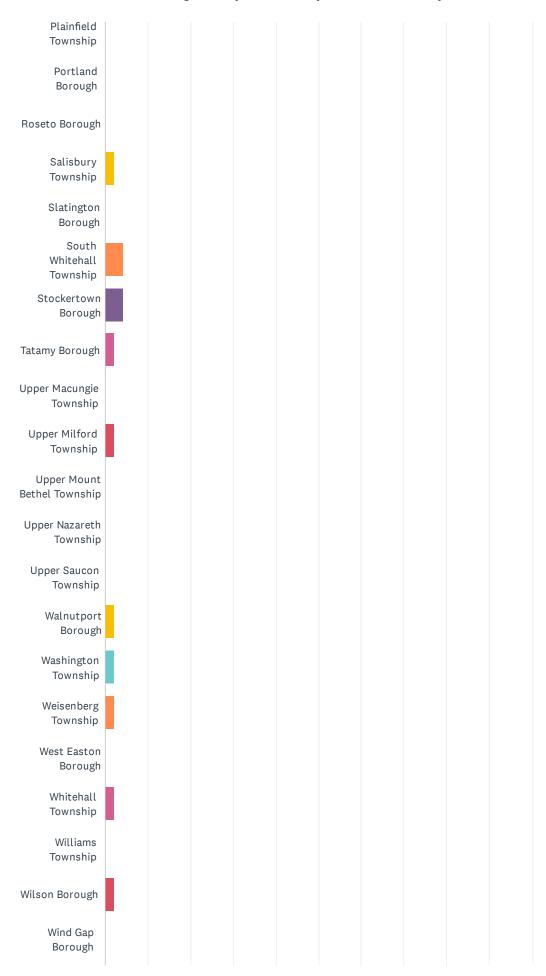
Action Category Group	Action Category	Priority Score
Additions Since 2018		
Plan		

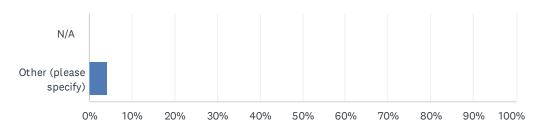
#### Q1 Which community are you representing?

Answered: 46 Skipped: 1





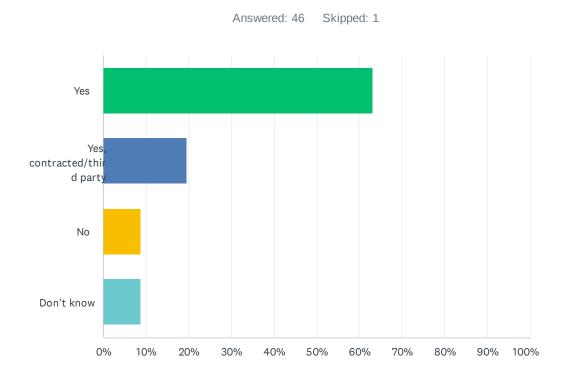




ANSWER CHOICES	RESPONSES	
Alburtis Borough	4.35%	2
	4.35%	
Allen Tournship	2.17%	1
Allen Township	2.17%	1
Bangor Borough	2.17%	1
Bath Borough	4.35%	
Bethlehem City	0.00%	0
Bethlehem Township		
Bushkill Township	0.00%	0
Catasauqua Borough	0.00%	0
Chapman Borough	4.35%	2
Coopersburg Borough	2.17%	1
Coplay Borough	2.17%	1
East Allen Township	2.17%	1
East Bangor Borough	2.17%	1
Easton City	2.17%	1
Emmaus Borough	0.00%	0
Forks Township	0.00%	0
Fountain Hill Borough	2.17%	1
Freemansburg Borough	0.00%	0
Glendon Borough	0.00%	0
Hanover Township	2.17%	1
Heidelberg Township	2.17%	1
Hellertown Borough	0.00%	0
Lehigh Township	0.00%	0
Lower Macungie Township	2.17%	1
Lower Milford Township	2.17%	1
Lower Mount Bethel Township	2.17%	1
Lower Nazareth Township	2.17%	1
Lower Saucon Township	0.00%	0
Lowhill Township	2.17%	1
Lynn Township	2.17%	1
Macungie Borough	2.17%	1

Moore Township Nazareth Borough	2.17% 	1
Northampton Borough	0.00%	0
North Catasauqua Borough	2.17%	1
North Whitehall Township	0.00%	0
Palmer Township	2.17%	1
Pen Argyl Borough	4.35%	2
Plainfield Township	0.00%	0
Portland Borough	0.00%	0
Roseto Borough	0.00%	0
Salisbury Township	2.17%	1
Slatington Borough	0.00%	0
South Whitehall Township	4.35%	2
Stockertown Borough	4.35%	2
Tatamy Borough	2.17%	1
Upper Macungie Township	0.00%	0
Upper Milford Township	2.17%	1
Upper Mount Bethel Township	0.00%	0
Upper Nazareth Township	0.00%	0
Upper Saucon Township	0.00%	0
Walnutport Borough	2.17%	1
Washington Township	2.17%	1
Weisenberg Township	2.17%	1
West Easton Borough	0.00%	0
Whitehall Township	2.17%	1
Williams Township	0.00%	0
Wilson Borough	2.17%	1
Wind Gap Borough	0.00%	0
N/A	0.00%	0
Other (please specify)	4.35%	2
TOTAL		46

#### Q2 Does your municipality have a floodplain administrator?



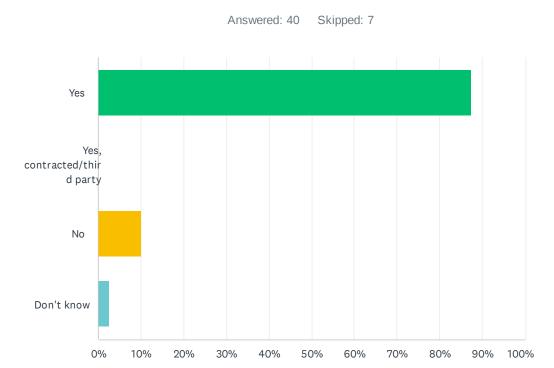
ANSWER CHOICES	RESPONSES	
Yes	63.04%	29
Yes, contracted/third party	19.57%	9
No	8.70%	4
Don't know	8.70%	4
TOTAL		46

## Q3 Floodplain administrator contact

Answered: 30 Skipped: 17

ANSWER CHOICES	RESPONSES	
Name	96.67%	29
Email	93.33%	28
Phone number	93.33%	28
Company name (if third party)	53.33%	16

#### Q4 Does your municipality have a public works director?



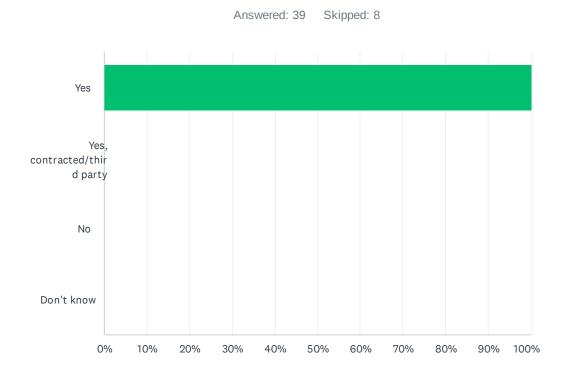
ANSWER CHOICES	RESPONSES	
Yes	87.50%	35
Yes, contracted/third party	0.00%	0
No	10.00%	4
Don't know	2.50%	1
TOTAL		40

## Q5 Public works contact

Answered: 32 Skipped: 15

ANSWER CHOICES	RESPONSES	
Name	100.00%	32
Email	90.63%	29
Phone number	96.88%	31
Company name (if third party)	15.63%	5

#### Q6 Does your municipality have an emergency management coordinator?



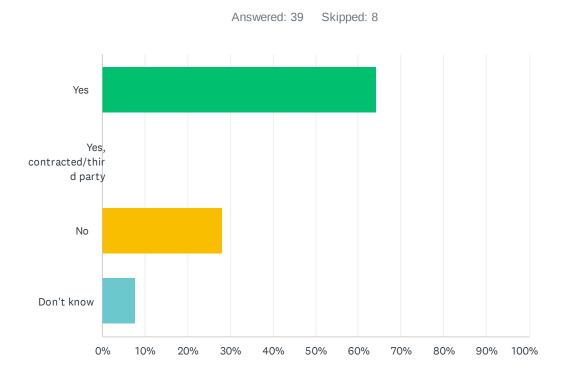
ANSWER CHOICES	RESPONSES	
Yes	100.00%	39
Yes, contracted/third party	0.00%	0
No	0.00%	0
Don't know	0.00%	0
TOTAL		39

## Q7 Emergency management contact

Answered: 36 Skipped: 11

ANSWER CHOICES	RESPONSES	
ANSWER CHOICES	RESPONSES	
Name	100.00%	36
Email	88.89%	32
Phone number	94.44%	34
Company name (if third party)	16.67%	6

#### Q8 Does your municipality have a planning staff/planning coordinator?



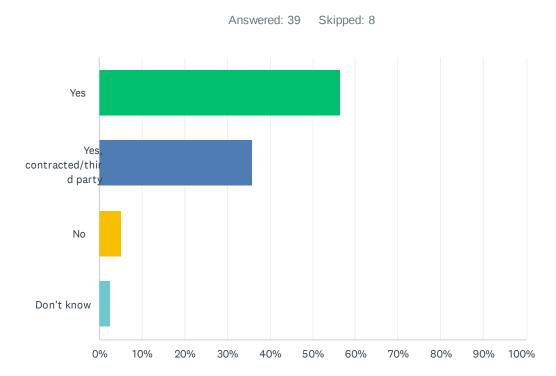
ANSWER CHOICES	RESPONSES	
Yes	64.10%	25
Yes, contracted/third party	0.00%	0
No	28.21%	11
Don't know	7.69%	3
TOTAL		39

## Q9 Planning staff/director contact

Answered: 22 Skipped: 25

ANSWER CHOICES	RESPONSES	
Name	100.00%	22
Email	81.82%	18
Phone number	86.36%	19
Company name (if third party)	22.73%	5

#### Q10 Does your municipality have an engineer?



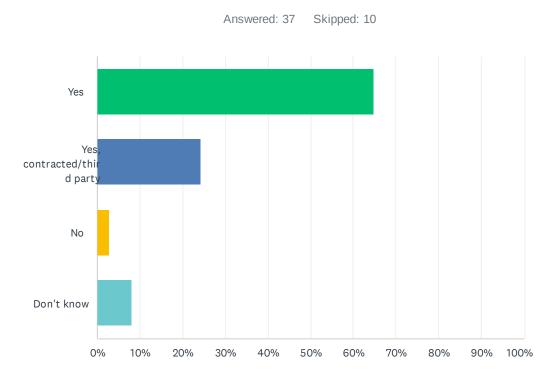
ANSWER CHOICES	RESPONSES	
Yes	56.41%	22
Yes, contracted/third party	35.90%	14
No	5.13%	2
Don't know	2.56%	1
TOTAL		39

# Q11 Engineering contact

Answered: 32 Skipped: 15

ANSWER CHOICES	RESPONSES	
Name	100.00%	32
Email	84.38%	27
Phone number	90.63%	29
Company name (if third party)	65.63%	21

## Q12 Does your municipality have a code official?



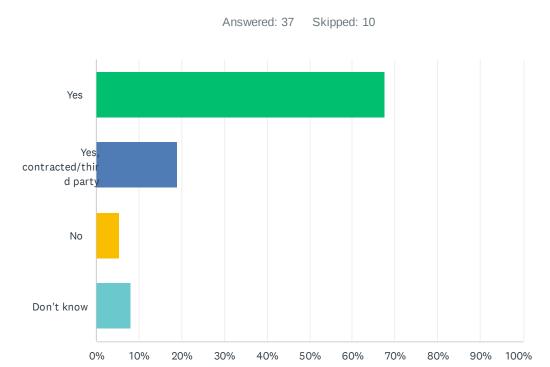
ANSWER CHOICES	RESPONSES	
Yes	64.86%	24
Yes, contracted/third party	24.32%	9
No	2.70%	1
Don't know	8.11%	3
TOTAL		37

# Q13 Municipal code contact

Answered: 31 Skipped: 16

ANSWER CHOICES	RESPONSES	
Name	96.77%	30
Email	80.65%	25
Phone number	87.10%	27
Company name (if third party)	51.61%	16

## Q14 Does your municipality have a zoning officer?



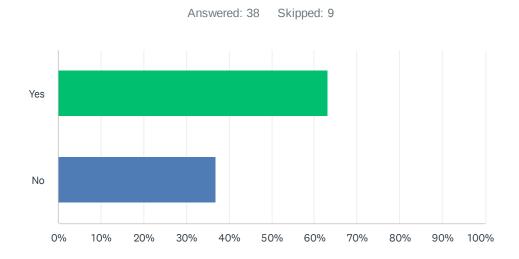
ANSWER CHOICES	RESPONSES	
Yes	67.57%	25
Yes, contracted/third party	18.92%	7
No	5.41%	2
Don't know	8.11%	3
TOTAL		37

# Q15 Zoning contact

Answered: 30 Skipped: 17

ANSWER CHOICES	RESPONSES	
Name	100.00%	30
Email	80.00%	24
Phone number	83.33%	25
Company name (if third party)	43.33%	13

## Q16 Does your municipality have a municipal manager?



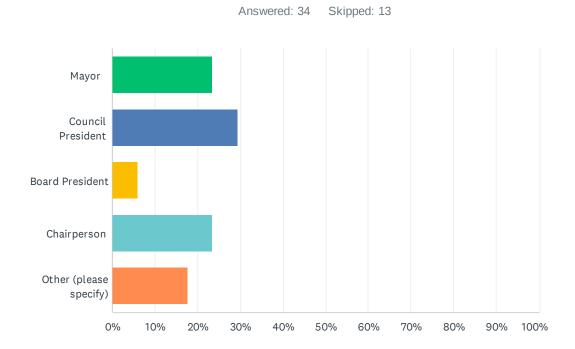
ANSWER CHOICES	RESPONSES	
Yes	63.16%	24
No	36.84%	14
TOTAL		38

# Q17 Municipal manager contact

Answered: 21 Skipped: 26

ANSWER CHOICES	RESPONSES	
Name	100.00%	21
Email	100.00%	21
Phone number	95.24%	20

## Q18 Which of the following best describes your head municipal official?



ANSWER CHOICES	RESPONSES	
Mayor	23.53%	8
Council President	29.41%	10
Board President	5.88%	2
Chairperson	23.53%	8
Other (please specify)	17.65%	6
TOTAL		34

# Q19 Head municipal contact

Answered: 34 Skipped: 13

ANSWER CHOICES	RESPONSES	
Name	100.00%	34
Email	91.18%	31
Phone	91.18%	31

### **Northampton County Stakeholder groups**

#### 1. Local and regional agencies involved in hazard mitigation activities:

• Including Public Works, local EM, local Floodplain Administration and GIS Depts.

Entity / Agency	Primary Contact	Alternate Contact
Northampton County Conservation District	Dion Campbell  dcampbell@norcopa.gov  dcampbell@northamptoncounty.org	
Lehigh County Conservation District	Kevin Fredrick District Manager kfrederick@lehighconservation.org	
ALL Northampton County Public Works Emails	nc-publicworks@ncem-pa.org	
ALL Northampton County Local EMC Emails	localem@ncem-pa.org	
Local Floodplain Administration / Administrators		
County GIS		

#### 2. Agencies that have the authority to regulate development:

• Including zoning, planning, community & economic development departments, building officials, planning commissions or other elected officials.

Entity / Agency	Primary Contact	Alternate Contact
Zoning		
Planning		
Community		
Northampton County Department of Community & Economic Development	Tina Smith Director 610-829-6310 tsmith@norcopa.gov	Marek Tomanek Deputy Director 610-829-6313 mtomanek@norcopa.gov
City of Bethlehem	econdev@bethlehem-pa.gov	
City of Easton	economicdevelopment@easton- pa.gov	
Lehigh Valley Economic  Development  Corporation	lvedc@lehighvalley.org	
Nazareth – Bath Regional Chamber of Commerce	canderson@nazarethchamber.com	
Small Business Development Center	insbdc@lehigh.edu	
The Chamber – Greater Lehigh Valley Chamber of Commerce	Matt Powell VP, Government & External Affairs mattp@lehighvalleychamber.org	
<b>Building Officials</b>		
Lehigh Valley Planning Commission	Susan L. Rockwell Senior Environmental Planner 610-264-4544 <u>srockwell@lvpc.org</u>	
Other elected officials		

#### 3. Neighboring communities:

• Including adjacent local governments, special districts, such as those affected by similar events or may share a mitigation action or project that crosses boundaries. Neighboring communities may be partners in hazard mitigation and response activities, or may be where critical assets, such as dams, are located.

Entity / Agency	Primary Contact	Alternate Contact
Adjacent Local Governments		
Warren County (NJ) EMA	Frank Wheatley Public Safety Director / OEM 908-835-2050 fwheatley@co.warren.nj.us	
Bucks County (PA) EMA	BucksEMA@buckscounty.org	
Carbon County (PA) EMA	Mark Nalesnik Coordinator 570-325-3097 ccema@ptd.net	
Monroe County (PA) EMA	Maryellen Keegan Director 570-992-4113 x7101 MKeegan@monroecountypa.gov	
Delaware River Basin Commission	<u>contact@drbc.gov</u>	
Special Districts		

### 4. Representatives of businesses, academia and other private organizations:

• Including private utilities, or major employers that sustain community lifelines.

Entity / Agency	Primary Contact	Alternate Contact
Met-Ed Electric (First Energy Corporation)	Thea Lind Regional External Affairs Consultant 610-250-2811 tlind@firstenergycorp.com	
PPL (Pennsylvania Power & Light)	Donna Webster 484-634-3079 dwebster@pplweb.com	
Bangor Borough Authority		
Bath Borough Authority		
Bethlehem Authority	Sandra Zapf Authority Administrative Assistance 10 E. Church Street, Room B-311, Bethlehem, PA 18018 610-865-2009 szapf@bethlehem-pa.gov	
East Bangor Municipal Authority	ebmadmin@ptd.net	
Easton Area Joint Sewer Authority	eajsasecretary@eajsa.com	
Easton Suburban Water Authority	info@eswater.net	
Hellertown Borough Authority	Service@hellertownwater.org	
Lehigh Township Municipal Authority	ltma@rcn.com	
Lower Saucon Authority	administrator@lowersauconauthority.org	
Nazareth Borough Municipal Authority		
Northampton Borough Municipal Authority	service@nbma.org	
Portland Borough Authority	pbwaterauthority@yahoo.com	
Walnutport Authority Water and Sewer		
Wind Gap Municipal Authority	Terry L. Miklas, Sr. Plant Operations Manager <a href="mailto:tlmwgma@frontier.com">tlmwgma@frontier.com</a>	

Lehigh – Northampton Airport Authority <i>(LNAA)</i>	Jennifer Bogari	
	Emergency Manager	
	3311 Airport Rd, Allentown, PA 18109	
	484-425-0323	
	jbogari@lnaa.com	
	Ryan Hay	
Lehigh Valley Health	Administrator, Public Safety &	
Network (LVHN)	Emergency Operations	
	Ryan_M.Hay@lvhn.org	
St. Luke's University Health Network ( <i>SLUHN</i> )	Alan Lynch	Austin Boccardi
	Director of Safety	Network Safety Officer
	Alan.lynch@sluhn.org	Austin.boccardi@sluhn.org
Businesses		
ALL Northampton County School Emails	schools@ncem-pa.org	
	<u>schools@ficefii-pa.org</u>	
	I.	

- 5. Representatives of nonprofit organizations, including community-based organizations, that work directly with and/or provide support to underserved communities and socially vulnerable population, among others:
  - Including housing, healthcare, or social service agencies.

Entity / Agency	Primary Contact	Alternate Contact
Northampton County Department of Human Services	Susan Wandalowski	Robyn Barbosa
	Director	Deputy Director
	610-829-4700	610-829-4700
	swandalowski@norcopa.gov	rbarbosa@norcopa.gov
Nurture Nature Center	Rachel Hogan Carr	Keri Maxfield
	Executive Director	Art Director
	518 Northampton St., Easton, PA	518 Northampton St., Easton, PA
	18042	18042
	610-253-4432 x101/610-217-8908 (c)	610-253-4432 x 101
	rhogan@nurturenature.org	kmaxfield@nurturenature.org
American Red Cross – Pennsylvania Rivers Chapter	Danielle Henkel	
	Disaster Program Manager	
	484-294-1631	
	Danielle.henkel@redcross.org	
Housing		
Healthcare		
Social Service agencies		