

Appendix Volume II – C – Steering Committee Meeting Documentation

- December 3, 2018 - Steering Committee Meeting:
- February 20, 2019 - Monmouth County Municipal OEM Coordinator Kick-Off Meeting:
- July 25, 2019 - Monmouth County meeting with OEM, Engineering Department and Planning Department:



MEETING MATERIAL FOR:

December 3, 2018 - Steering Committee Meeting:





Monmouth County Multi-Jurisdictional Hazard Mitigation Plan

Steering Committee Meeting

December 3, 2018



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



MONMOUTH COUNTY
SHERIFF'S OFFICE
Sheriff Shaun Golden

Michael Baker
INTERNATIONAL

Monmouth County's Multi-Jurisdictional All Hazards Mitigation Plan Update

Projects Completed or Underway:

- **63 projects** completed with Hazard Mitigation Assistance (HMA) funding.
- **85 projects** completed with other funding.
- **29 jurisdictions** with completed projects.

Multi-Jurisdictional
Natural Hazard Mitigation Plan
Monmouth County, New Jersey

Prepared for



Monmouth County Office of Emergency Management
300 Halls Mill Road
Freehold, New Jersey 07728



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



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6 Step Planning Process

1. Gather Input from Stakeholders
2. Develop Risk & Vulnerability Assessment
3. Capability Assessment
4. Develop Mitigation Strategy
5. Determine Plan Maintenance Process
6. Obtain Mitigation Plan Approval & Adoption

Key Milestones for FEMA Approval

- **Sept. - Nov., 2019** – Draft Plan review by County
- **December 1, 2019** – Submission to NJOEM
- **February 1, 2020** – Adoption of Final Plan
- **April 30, 2020** – Submission of Final Plan to FEMA



Meeting with Stakeholders

- Project Team will work directly with local public staff in each municipality to engage with Municipal Officials, Staff & Vested Stakeholders.
- Targeting Local Meetings, such as:
 - Scheduled Round Table Discussions
 - City Council Meetings
 - Land use Meeting
 - Planning/ Zoning Meeting
 - Emergency Management Meetings
 - Sustainability Meetings



Michael Baker's community engagement strategy includes individual meetings with each municipality.



Meeting with Stakeholders

Public Meetings

- Risk Assessment Meeting
- *Spring 2019*
- Mitigation Solutions Workshop
- *Summer 2019*
- Draft Plan Review Meeting
- *Fall 2019*



Michael Baker provides a variety of ways for stakeholders to learn about mitigation and provide input.

Individual Municipal Outreach

-Targeting March to June 2018



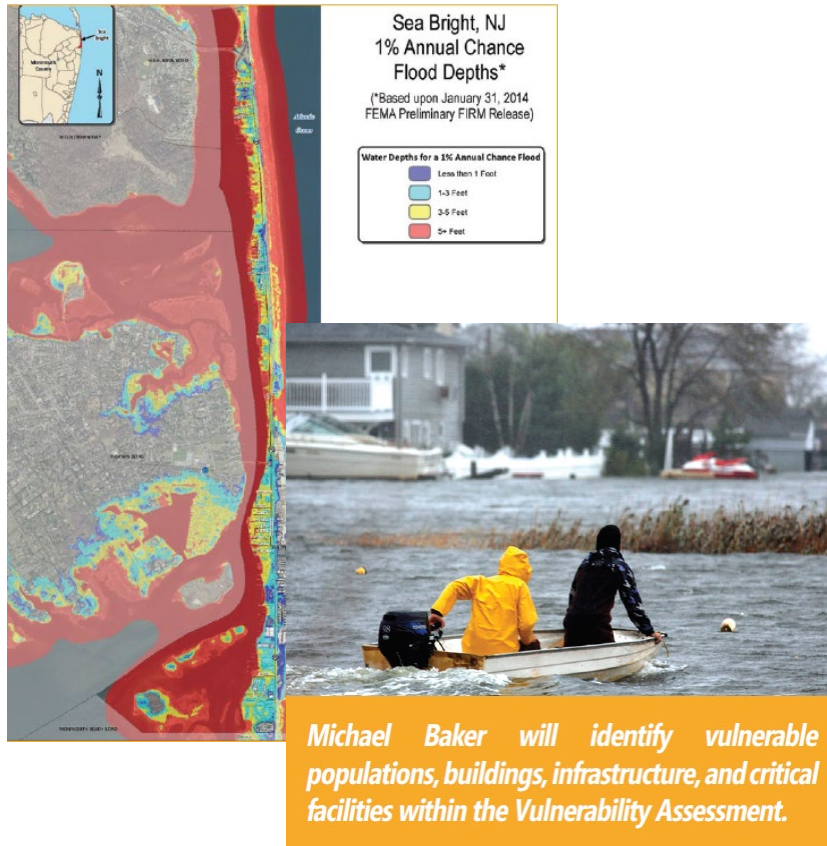
Monmouth County
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Develop Risk & Vulnerability Assessment



- FEMA's HAZUS software
- Past Disasters
- Flood Insurance Rate Maps for 1% annual flood
- Hazard Mitigation Plans for additional risk analysis



Capability Assessment

Name: _____ Title: _____

Jurisdiction: _____ Organization: _____

Local mitigation capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

Planning and Regulatory

Planning and regulatory capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction has in place.

Plans	Yes/No Year	What is the date/year of the plan? Does the plan address hazards? Does the plan identify projects to include in the mitigation strategy? Can the plan be used to implement mitigation actions?
Comprehensive/ Master Plan		
Capital Improvements Plan		
Economic Developments Plan		
Local Emergency Operations Plan		
Continuity of Operations Plan		
Transportation Plan		
Stormwater Management Plan		
Community Wildfire Protection Plan		
Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)		
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?

- A *Capability Assessment Worksheet* will be distributed to all municipalities and the county
- Used to:
 - Identify strengths that could reduce losses and reduce risks in the community.
 - Examines the integration of existing planning mechanisms and the Hazard Mitigation Plan.

Capability Assessment Worksheet



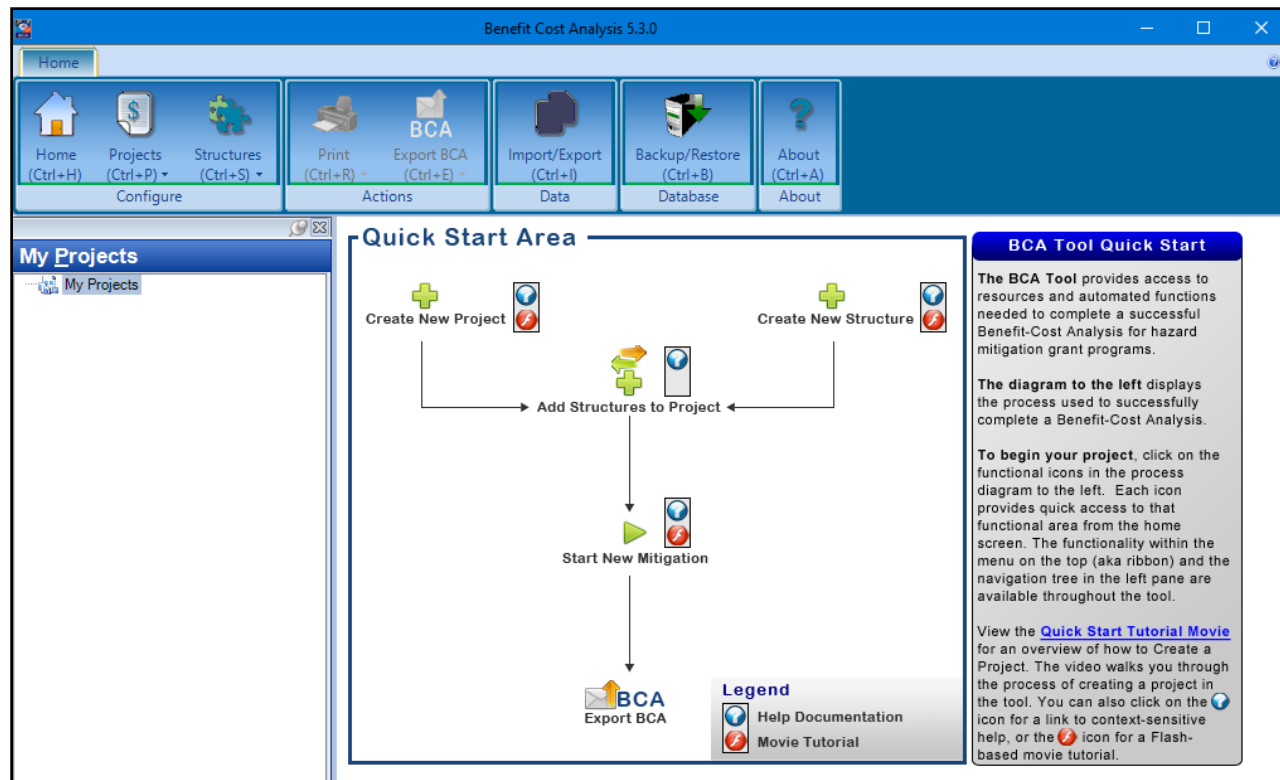
Develop Mitigation Strategy

1. Local Plans and Regulations
2. Structure and Infrastructure Projects
3. Natural Systems Protection
4. Education and Awareness Programs



Mitigation Strategy

Cost Benefit Analysis for up to five (5) projects identified as mitigation actions.



New for this Plan Update

Community Rating System Integration into Plan



Mitigation Planning and the
Community Rating System
Key Topics Bulletin

October 2018



Table 3. Comparison of the Planning Processes			
Mitigation Planning Elements*	CRS Planning Steps**	Max Points	Average
A. Planning Process	1. Organize to prepare the plan	15	10
	2. Involve the public	120	34
	3. Coordinate	35	10
	10. Implement, evaluate, revise	26	5
B. Hazard Identification and Risk Assessment	4. Assess the hazard	35	25
	5. Assess the problem	52	29
C. Mitigation Strategy	6. Set goals	2	2
	7. Review possible activities	35	20
	8. Draft an action plan	60	42
D. Plan Update	10. Implement, evaluate, revise 5-year update	See Element A	
E. Plan Adoption	9. Adopt the plan	2	2
		382	171

* The planning elements are per Local Mitigation Plan Review Guide and its Plan Review Tool
 ** The 10 steps are detailed in Activity 510, Section 512.a, Floodplain Management Planning (FMP) in the CRS Coordinator's Manual



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New for this Plan Update

- Use of ESRI Story Maps

Monmouth County's Cultural & Heritage Virtual Tours

Explore Monmouth County's cultural, environmental, & historic heritage through a Virtual Tour. Seven Virtual Tours are currently available to explore, covering almost every corner of Monmouth County.

Monmouth County's Virtual Tours

South Monmouth Emerald Byway

Historic Monmouth Crossroads

MOCO Cultural Byway

Bayshore Drive

Two River Tri-way

Ocean Drive

Country to Coast Byway

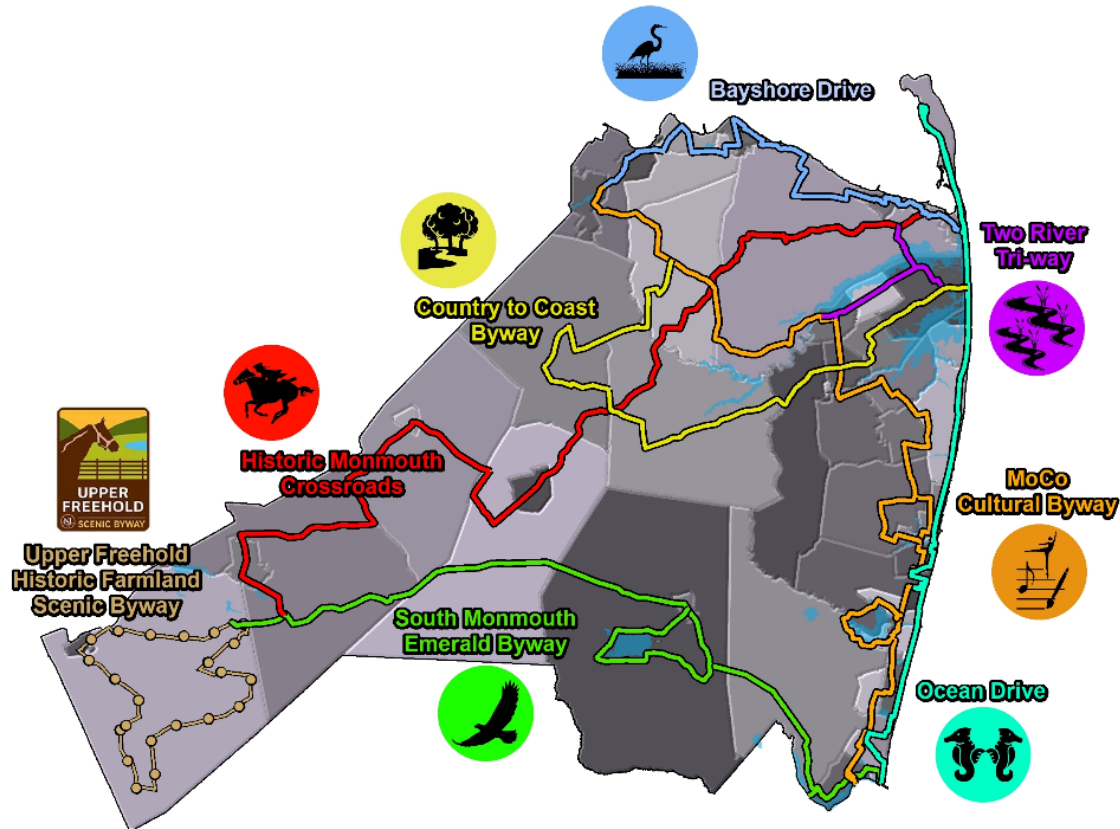
Upper Freehold

The 2016 Monmouth County Master Plan recommends providing a county-based network of interconnected historic, cultural, and arts assets modeled similarly to state and federal scenic byway programs. Rather than provide physical routes for travelers to follow throughout the County, the Monmouth County Division of Planning is developing a series of virtual cultural and heritage tours that users can enjoy and explore online. This approach permits more flexibility in route selection allowing planners to greatly expand the number and type of highlighted points-of-interest along each route.



The Cultural & Heritage Virtual Tours program is intended to elevate the public's awareness about the many natural, cultural, historic, scenic, architectural, institutional, and commemorative sites that are an irreplaceable component of our enhanced quality-of-life here in Monmouth County. These sites support our tourist industry attracting visitors from all over the state, if not the world. As such, they should be recognized as community assets that help convey the story of our cumulative experience. The Cultural & Heritage Virtual Tours program supports ongoing efforts by the County to perpetuate our agricultural legacy, celebrate our Jersey Shore lifestyle, safeguard our history, and promote our indigenous arts and culture. Many of us who call Monmouth County home value the sites and attractions found along the routes for various reasons. Some of us find solace in them as representative of an enduring connection to one another through a common past. Others see these features not as legacy but part of a contemporary world that interweaves old with new, natural with built, and physical with spiritual.

The county's seven (7) cultural and heritage tours plus the Upper Freehold Historic Farmland Scenic Byway connect to and overlap with one another, creating a virtual and



New to This Plan

Seminar on Available Grant Programs through
FEMA's Hazard Mitigation Assistance:



**Hazard Mitigation
Grant Program (HMGP)**



**Flood Mitigation
Assistance (FMA)**



**Pre-Disaster
Mitigation (PDM)**



Mitigation Strategy Goals of 2015 County HMP

1. Promote disaster resistant development.
2. Build and support local capacity to enable the public to prepare for, respond to, and recover from disasters.
3. Reduce the possibility of damage and losses due to drought.
4. Reduce the possibility of damage and losses due to flooding associated with coastal and inland floods, hurricanes, and nor'easters.
5. Reduce the possibility of damage and losses due to earthquakes.
6. Reduce the possibility of damage and losses due to lightning strikes.
7. Reduce the possibility of damage and losses due to coastal erosion and wave action.
8. Reduce the possibility of damage and losses due to dam failure.
9. Reduce the possibility of damage and losses due to landslides.
10. Reduce the possibility of damage and losses due to wildfires.



Mitigation Strategy Goals of 2015 County HMP

- 11.Reduce the possibility of damage and losses due to winter storms.
- 12.Reduce the possibility of damage and losses due to extreme temperatures.
- 13.Reduce the possibility of damage and losses due to high winds associated with tornados, windstorms, tropical storms, hurricanes, and nor'easters.
- 14.Reduce the possibility of damages to emergency and critical facilities from damage due to flooding, storm surge, wildfires, and extreme winds.
- 15.Promote disaster resistance by incorporating mitigation actions into other planning mechanisms.



Mitigation Strategy Goals of State HMP

1. Protect life.
2. Protect property.
3. Increase public preparedness and awareness.
4. Develop and maintain an understanding of risks from hazards.
5. Enhance State and local mitigation capabilities to reduce hazard vulnerabilities.
6. Support continuity of operations pre-, during, and post- hazard events.



Hazards Identified in the 2015 Plan

(Nature-based Hazards)

Atmospheric

- Extreme Temperatures
- Extreme Wind
- Hurricane & Tropical Storm
- Lightning
- Nor'easter
- Tornado
- Winter Storm

Hydrologic

- Coastal Erosion
- Dam Failure
- Drought
- Flood
- Storm Surge
- Wave Action

Geologic

- Earthquake
- Landslide

Other

- Wildfire

**Impacts from Climate Change and Sea-level Rise will be addressed in each applicable hazard.*



Potential Hazards to Consider

Hazards Profiled in the State Plan, but not the County Plan:

- Animal Disease
- Civil Unrest
- Crop Failure
- Cyber Attack
- Economic Collapse
- Fishing Failure
- Hazardous Substances
- Nuclear Hazards
- Pandemic
- Power Failure
- Terrorism



Previously considered in the 2015 County Plan, but not included:

- Avalanche
- Land Subsidence
- Hailstorm
- Tsunami
- Expansive Soils
- Volcano

Committee Role in the Update Process

- Lead and Participate
- Provide input and feedback on the project direction and work products
- Participate in community engagement meetings
- Complete data requests in a timely manner





MEETING NOTES

Topic: Steering Committee Kickoff

Date: December 03, 2018

Time: 1 - 3 pm

Location: 2000 Kozloski Rd, Freehold, NJ 07728

Attendees: Lisa Auermuller, Jacques Cousteau National Estuarine Research Reserve
Joe Barris, Monmouth County Division of Planning
Laura Connolly, NJOEM
Inkyung Englehart, Monmouth County DPW&E
Alain Fortier, Monmouth County Health Department
Bonnie Heard, T&M Associates
Thomas Herington, Monmouth University - Urban Coast Institute
Dave Henry, Monmouth County Regional Health Commission
Adam Hubeny, Atlantic Highland OEM-Bayshore
David Krady, Monmouth County Planning
Bill McDonnell, FEMA
Holly McGovern, New Jersey Natural Gas
David Morris, PW&E
Michael Oppegaard, Monmouth County Emergency Management
Ray Piccolini, Freehold OEM-West
Edward Sampson, Monmouth County Planning
John Tobia, Monmouth County DPW&E
Craig Wenger, Michael Baker Intl.
Sarah Width-Sysol, NJOEM
Howard Wolf, FEMA
Michael Yaffe, Michael Baker Intl.

Drafted by: Michael Yaffe

Introductions

Michael Oppegaard gave an introduction to the update of the Monmouth County Hazard Mitigation Plan (HMP).



Craig Wenger the Project Manager for Michael Baker International gave an overview of the 18-month Planning Process for the HMP Update. The planning process includes the following steps:

1. Gather Input from Stakeholders
2. Develop Risk & Vulnerability Assessment
3. Capability Assessment
4. Develop Mitigation Strategy
5. Determine Plan Maintenance Process
6. Obtain Mitigation Plan Approval & Adoption

Craig also discussed new items for the Plan. These include:

- Outreach directly with local public staff in each municipality to engage municipal officials, staff & vested stakeholders
- Community Rating System Integration into Plan
- Use of ESRI Story Maps
- Seminar on Available Grant Programs through FEMA's Hazard Mitigation Assistance
- Building on existing capabilities such as NJ FRAMES, Getting to Resiliency, and Post Sandy Recovery.

Mitigation Strategy Goals

Previous County Hazard Mitigation Goals:

1. Promote disaster resistant development.
2. Build and support local capacity to enable the public to prepare for, respond to, and recover from disasters.
3. Reduce the possibility of damage and losses due to drought.
4. Reduce the possibility of damage and losses due to flooding associated with coastal and inland floods, hurricanes, and nor'easters.
5. Reduce the possibility of damage and losses due to earthquakes.
6. Reduce the possibility of damage and losses due to lightning strikes.
7. Reduce the possibility of damage and losses due to coastal erosion and wave action.
8. Reduce the possibility of damage and losses due to dam failure.
9. Reduce the possibility of damage and losses due to landslides.
10. Reduce the possibility of damage and losses due to wildfires.
11. Reduce the possibility of damage and losses due to winter storms.
12. Reduce the possibility of damage and losses due to extreme temperatures.
13. Reduce the possibility of damage and losses due to high winds associated with tornados,
14. windstorms, tropical storms, hurricanes, and nor'easters.
15. Reduce the possibility of damages to emergency and critical facilities from damage due to flooding, storm surge, wildfires, and extreme winds.
16. Promote disaster resistance by incorporating mitigation actions into other planning



mechanisms.

State Hazard Mitigation Goals:

1. Protect life.
2. Protect property.
3. Increase public preparedness and awareness.
4. Develop and maintain an understanding of risks from hazards.
5. Enhance State and local mitigation capabilities to reduce hazard vulnerabilities.
6. Support continuity of operations pre-, during, and post- hazard events.

Hazards Identified

Atmospheric

- Extreme Temperatures
- Extreme Wind
- Hurricane & Tropical Storm
- Lightning
- Nor'easter
- Tornado
- Winter Storm

Hydrologic

- Coastal Erosion
- Dam Failure
- Drought
- Flood
- Storm Surge
- Wave Action

Geologic

- Earthquake
- Landslide

Other

- Wildfire



Discussion on Goals and Hazards:

A worksheet was distributed to collect responses on hazards and goals to be included in the plan update.

Comments collected from the worksheet and discussion during the meeting are summarized below:

- Hazards should be streamlined and related hazards should be combined together, especially flooding related hazards.
- It was noted that not one of the Goals uses the word “resilience” and it should be incorporated somewhere in the Goals statement.
- We should understand how risk changes over time. “Monitoring risk” should be added to the goals.
- Add Goal on building on past work done throughout the county.
- The New FEMA BCA model takes into account future conditions.

Next Steps:

- Steering Committee to complete worksheets on Goals and Hazards.
- Michael Oppegaard will create an email account through OEM to receive responses back from the steering committee on the worksheets. This email will auto forward to Michael Baker Intl. project team.

Key Milestones:

- **Sept. - Nov., 2019** – Draft Plan review by County
- **December 1, 2019** – Submission to NJOEM
- **February 1, 2020** – Adoption of Final Plan
- **April 30, 2020** – Submission of Final Plan to FEMA



Worksheet Responses:

Hazard Identification – Nature-based

2015 Monmouth County HMP Hazards
Coastal Erosion*
Dam Failure (Consider to Remove)
Drought (Consider to Remove)
Earthquake
Extreme Temperatures
Extreme Wind*
Flood*
Hurricane & Tropical Storm*
Landslide (Consider to Remove)
Lightning (Consider to Remove)
Nor'easter*
Storm Surge*
Tornado
Wave Action*
Winter Storm

* Combine into Hazard related categories where appropriate



Hazard Identification – Human-based

Human-based Hazard
Civil Unrest
Cyber Attack
Economic Collapse
Pandemic
Power Failure
Terrorism

Goals:

1. Protect life.
2. Protect property and reduce economic impacts.
3. Increase public preparedness, awareness, and resiliency.
 - a. Support enhancement of CRS program.
4. Develop, maintain, and monitor an understanding of risks from hazards.
5. Enhance local resilience and mitigation capabilities to reduce hazard vulnerabilities.
 - a. Promote disaster resistance by incorporating mitigation actions into other planning mechanisms.
6. Promote hazard resilient development and natural resources
 - a. Reduce the possibility of damages to emergency and critical facilities
 - b. Reduce the possibility of damage and losses due to natural- and human-based hazards.
 - c. Build on previous resiliency projects completed throughout the county.
7. Support continuity of operations pre-, during, and post- hazard events.
 - a. Build and support local capacity to prepare for, respond to, and recover from disasters.



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update



Hazards to Profile in Hazard Mitigation Plan Update

Name Michael Oppenaw Organization Monmouth OEM

Review this entire handout and check all hazards that apply or should be profiled in the plan update.

Nature-based Hazards included in 2015 Monmouth County HMP:

2015 Monmouth County HMP Hazards	Include in Update (✓)	Comment
Coastal Erosion *		
Dam Failure	✓	
Drought	✓	
Earthquake	✓	
Extreme Temperatures	✓	
Extreme Wind *		
Flood *		
Hurricane & Tropical Storm *		
Landslide	NO	
Lightning	NO	possibly include w/ storms -
Nor'easter *		
Storm Surge *		
Tornado	✓	
Wave Action *		
Winter Storm	✓	

*Impacts from Climate Change and Sea-level Rise will be addressed in each applicable hazard

* = combine under heading Hurricane / Tropical Storm / Nor'easter

Previously considered in the 2015 County Plan, but not included

Nature-based Hazard	Included in Update (✓)	Comment
Avalanche	NO	
Hailstorm	NO	
Expansive Soils	NO	
Land Subsidence	NO	
Tsunami *		I would remove this - However we had a warning/alert on 11/15/18.
Volcano	NO	

Human-based Hazards Profiled in the State HMP, but not the County HMP.

Human-based Hazard	Include in Update (✓)	Comment
Animal Disease	NO	
Civil Unrest	✓	
Crop Failure	NO	
Cyber Attack	✓	
Economic Collapse	✓	
Fishing Failure	NO	
Hazardous Substances	NO	
Nuclear Hazards	NO	
Pandemic / Public Health	✓	
Power Failure	✓	
Terrorism	✓	Feel that this needs to be covered - Due to extended outages that result from storms.

Are there additional hazards that should be profiled in the HMP update that are not listed above?

Comment: _____



Mitigation Strategy Goals

Name Michael Oppengaard Organization Monmouth OEM

Review this entire handout and check all goals that still apply or should be carried forward for this plan update.

2015 Monmouth County HMP Goals: (check all that apply)

- ☒ 1. Promote disaster resistant development. *disaster Resilience*
- ☒ 2. Build and support local capacity to enable the public to prepare for, respond to, and recover from disasters.
- ☐ 3. Reduce the possibility of damage and losses due to drought.
- ☐ 4. Reduce the possibility of damage and losses due to flooding associated with coastal and inland floods, hurricanes, and nor'easters.
- ☐ 5. Reduce the possibility of damage and losses due to earthquakes.
- ☐ 6. Reduce the possibility of damage and losses due to lightning strikes. *- Delete*
- ☐ 7. Reduce the possibility of damage and losses due to coastal erosion and wave action.
- ☐ 8. Reduce the possibility of damage and losses due to dam failure.
- ☐ 9. Reduce the possibility of damage and losses due to landslides. *- Delete*
- ☐ 10. Reduce the possibility of damage and losses due to wildfires.
- ☐ 11. Reduce the possibility of damage and losses due to winter storms.
- ☐ 12. Reduce the possibility of damage and losses due to extreme temperatures.
- ☐ 13. Reduce the possibility of damage and losses due to high winds associated with tornados, windstorms, tropical storms, hurricanes, and nor'easters.
- ☒ 14. Reduce the possibility of damages to emergency and critical facilities from damage due to flooding, storm surge, wildfires, and extreme winds.
- ☒ 15. Promote disaster resistance by incorporating mitigation actions into other planning mechanisms.

Should the County HMP Goals 3 through 13 be combined into one goal?

New Goal: Reduce the possibility of damage and losses due to hazards. natural & Human

*based on
Based
Hazards*

☒ YES ☐ NO ☐ Other (provide comment)

Comment: Include checked goals within sub
goals on reverse side.



Below are the State of New Jersey Hazard Mitigation Plan (HMP) Goals:

1. Protect life.
2. Protect property. + Reduce Economic impacts
3. Increase public preparedness and awareness. + Resiliency
4. Develop and maintain an understanding of risks from hazards.
5. Enhance State and local ^{Resilience +} mitigation capabilities to reduce hazard vulnerabilities.
6. Support continuity of operations pre-, during, and post- hazard events.

How would you refine the State Goals to be more Monmouth County specific?

Comment: _____

7. ~~Enhance~~ support enhancement of CRS program



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



Hazards to Profile in Hazard Mitigation Plan Update

Name Lisa Auermuller Organization JC WERR, Rutgers

Review this entire handout and check all hazards that apply or should be profiled in the plan update.

Nature-based Hazards included in 2015 Monmouth County HMP:

2015 Monmouth County HMP Hazards	Include in Update (✓)	Comment
Coastal Erosion		- coastal and riverine - coastal both ocean and bay. Are these More impacts of hazards and not just hazards themselves.
Dam Failure		
Drought		
Earthquake		
Extreme Temperatures		
Extreme Wind		
Flood		
Hurricane & Tropical Storm		
Landslide		
Lightning		
Nor'easter		
Storm Surge		
Tornado		
Wave Action		
Winter Storm		

*Impacts from Climate Change and Sea-level Rise will be addressed in each applicable hazard



Mitigation Strategy Goals

Name LISA Auermuller Organization IC NEER, Rutgers

Review this entire handout and check all goals that still apply or should be carried forward for this plan update.

2015 Monmouth County HMP Goals: (check all that apply)

- hazard resilient and natural resources -*
- ☒ 1. Promote ~~disaster resistant~~ development.
 - ☒ 2. Build and support local capacity to ~~enable the public~~ prepare for, respond to, and recover from disasters.
 - ☒ 3. Reduce the possibility of damage and losses due to ~~drought~~ *Hazards*.
 - ☒ 4. Reduce the possibility of damage and losses due to flooding associated with coastal and inland floods, hurricanes, and nor'easters.
 - ☐ 5. Reduce the possibility of damage and losses due to earthquakes.
 - ☒ 6. Reduce the possibility of damage and losses due to lightning strikes.
 - ☒ 7. Reduce the possibility of damage and losses due to coastal erosion and wave action.
 - ☒ 8. Reduce the possibility of damage and losses due to dam failure.
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 - ☒ 12. Reduce the possibility of damage and losses due to extreme temperatures.
 - ☒ 13. Reduce the possibility of damage and losses due to high winds associated with tornados, windstorms, tropical storms, hurricanes, and nor'easters.
 - ☒ 14. Reduce the possibility of damages to emergency and critical facilities ~~from damage due to flooding, storm surge, wildfires, and extreme winds.~~
 - ☒ 15. Promote disaster resistance by incorporating mitigation actions into other planning mechanisms.

Should the County HMP Goals 3 through 13 be combined into one goal?

New Goal: Reduce the possibility of damage and losses due to hazards.

☒ YES ☐ NO ☐ Other (provide comment)

Comment: • Add a goal w/ "resilience". - See #1 above
 • Liked Joe Balm's comment on adding "monitoring" to "develop and maintain" an understanding from state plan.
 • Add a goal regarding building on past work done throughout county.



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Michael Baker
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Mitigation Strategy Goals

Name

ADAM HUBENY

Organization

BOROUGH OF
ATLANTIC HIGHLANDS

Review this entire handout and check all goals that still apply or should be carried forward for this plan update.

2015 Monmouth County HMP Goals: (check all that apply)

- ☒ 1. Promote disaster resistant development.
- ☒ 2. Build and support local capacity to enable the public to prepare for, respond to, and recover from disasters.
- ☐ 3. Reduce the possibility of damage and losses due to drought.
- ☒ 4. Reduce the possibility of damage and losses due to flooding associated with coastal and inland floods, hurricanes, and nor'easters.
- ☒ 5. Reduce the possibility of damage and losses due to earthquakes.
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Should the County HMP Goals 3 through 13 be combined into one goal?

New Goal: Reduce the possibility of damage and losses due to hazards.

☐ YES ☐ NO ☐ Other (provide comment)

Comment: _____



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



Hazards to Profile in Hazard Mitigation Plan Update

Name ADAM HUBENY Organization BOROUGH OF ATLANTIC HIGHLANDS

Review this entire handout and check all hazards that apply or should be profiled in the plan update.

Nature-based Hazards included in 2015 Monmouth County HMP:

2015 Monmouth County HMP Hazards	Include in Update (✓)	Comment
Coastal Erosion	✓	HIGHEST POINT ON EAST COAST - MT. MITCHELL
Dam Failure		
Drought		
Earthquake	✓	
Extreme Temperatures	✓	
Extreme Wind	✓	ON PARITAN / SANDY HOOK BAY - "EXTREME"
Flood	✓	TIDAL / NO STORM GATE
Hurricane & Tropical Storm	✓	* IRENE, SANDY, 92' NOR'EASTER
Landslide	✓	HILLS, PEAKS, VALLEYS. STEEP SLOPE
Lightning		
Nor'easter	✓	* NO REAL PROTECTION to COAST & MON. HARBOR
Storm Surge	✓	SAME - SURGE / TIDAL
Tornado	✓	
Wave Action	✓	SAME - SURGE, TIDAL, WIND
Winter Storm	✓	STEEP SLOPES

*Impacts from Climate Change and Sea-level Rise will be addressed in each applicable hazard



Mitigation Strategy Goals

Name _____ Organization _____

Review this entire handout and check all goals that still apply or should be carried forward for this plan update.

2015 Monmouth County HMP Goals: (check all that apply)

- ☐ 1. Promote disaster resistant development.
- ☐ 2. Build and support local capacity to enable the public to prepare for, respond to, and recover from disasters.
- ☐ 3. Reduce the possibility of damage and losses due to drought.
- ☐ 4. Reduce the possibility of damage and losses due to flooding associated with coastal and inland floods, hurricanes, and nor'easters.
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- ☐ 11. Reduce the possibility of damage and losses due to winter storms.
- ☐ 12. Reduce the possibility of damage and losses due to extreme temperatures.
- ☐ 13. Reduce the possibility of damage and losses due to high winds associated with tornados, windstorms, tropical storms, hurricanes, and nor'easters.
- ☐ 14. Reduce the possibility of damages to emergency and critical facilities from damage due to flooding, storm surge, wildfires, and extreme winds.
- ☐ 15. Promote disaster resistance by incorporating mitigation actions into other planning mechanisms.

Should the County HMP Goals 3 through 13 be combined into one goal?

New Goal: Reduce the possibility of damage and losses due to hazards.

☐ YES ☐ NO ☐ Other (provide comment)

Comment: _____



Below are the State of New Jersey Hazard Mitigation Plan (HMP) Goals:

1. Protect life.
2. Protect property.
3. Increase public preparedness and awareness.
4. Develop and maintain an understanding of risks from hazards.
5. Enhance State and local mitigation capabilities to reduce hazard vulnerabilities.
6. Support continuity of operations pre-, during, and post- hazard events.

How would you refine the State Goals to be more Monmouth County specific?

[illegible]



Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update



Hazards to Profile in Hazard Mitigation Plan Update

Name _____ Organization _____

Review this entire handout and check all hazards that apply or should be profiled in the plan update.

Nature-based Hazards included in 2015 Monmouth County HMP:

2015 Monmouth County HMP Hazards	Include in Update (✓)	Comment
Coastal Erosion		
Dam Failure		
Drought		
Earthquake		
Extreme Temperatures		
Extreme Wind		
Flood		
Hurricane & Tropical Storm		
Landslide		
Lightning		
Nor'easter		
Storm Surge		
Tornado		
Wave Action		
Winter Storm		

****Impacts from Climate Change and Sea-level Rise will be addressed in each applicable hazard***

Previously considered in the 2015 County Plan, but not included

Nature-based Hazard	Included in Update (✓)	Comment
Avalanche		
Hailstorm		
Expansive Soils		
Land Subsidence		
Tsunami		
Volcano		

Human-based Hazards Profiled in the State HMP, but not the County HMP.

Human-based Hazard	Include in Update (✓)	Comment
Animal Disease		
Civil Unrest		
Crop Failure		
Cyber Attack		
Economic Collapse		
Fishing Failure		
Hazardous Substances		
Nuclear Hazards		
Pandemic		
Power Failure		
Terrorism		

Are there additional hazards that should be profiled in the HMP update that are not listed above?

Comment: _____



Steering Committee Sign-In
December 3, 2018

Initial	Last Name	First Name	Title	Organization	Email Address
	Ameen	Mary		North Jersey Transportation Planning Authority	
	Antonucci	Claire		NJ Sea Grant Consortium	cantonucci@njseagrant.org
AM	Auermuller	Lisa		Jacques Cousteau National Estuarine Research Reserve	auermull@marine.rutgers.edu
B	Barris	Joe		Monmouth County Division of Planning	joe.barris@co.monmouth.nj.us
	Connolly	Laura		NJOEM Mitigation	lppconnl@gw.njsp.org
	Dawson	Robert		Monmouth County Undersheriff	rdawson@mcsonj.org
	Dayback	Dennis		NWS Earle	ddayback@TandMassociates.com
	Doolittle	Bill		Monmouth County Building Code Officials	bdoolittle@neptunetownship.org
EB	Englehart	Inkyung		Monmouth County DPW&E	inkyung.englehart@co.monmouth.nj.us
	Ettore	Joe		Monmouth County Engineer	joseph.ettore@co.monmouth.nj.us
AF	Fortier	Alain		Monmouth County Health Department, Hazmat	alain.fortier@co.monmouth.nj.us
	Golden	Shaun		Monmouth County Sheriff	sgolden@mcsonj.org
TH	Harrington	Thomas		Monmouth University-Urban Coast Institute	therring@monmouth.edu
	Hearne	Tim		United Way of Monmouth & Ocean	thearne@unmoc.org



Steering Committee Sign-In
December 3, 2018

Initial	Last Name	First Name	Title	Organization	Email Address
<i>DM</i>	Henry	Dave	<i>Health officer</i>	Monmouth County Regional Health Commission	dhenry@mcrhc.org
	Hrycyk	Bryan		Township of Middletown Municipal Sewerage Authority	bhrycyk@tomsanj.com
	Hubeny	Adam	<i>ADMINISTRATOR - OEM COORDINATOR</i>	Atlantic Highland OEM-Bayshore	ahubeny@ahnj.com
	Impreveduto	Patrick		Monmouth County Freeholder	patrick.impreveduto@co.monmouth.nj.us
<i>DK</i>	Krady	David Krady	<i>CIS ANALYST</i>	Monmouth County Planning Board	david.krady@co.monmouth.nj.us
	Krause	Ryan		South Monmouth Regional Sewerage Authority	info@smrsa.org
	MacDonald	Tony		Monmouth University-Urban Coast Institute	amacdona@monmouth.edu
	McGovern	Holly	<i>NJNG MANAGER MONMOUTH</i>	New Jersey Natural Gas	hmcgovern@njng.com
	Merkel	Chris	<i>Health officer</i>	Monmouth County Health Dept	Christopher.merkel@co.monmouth.nj.us
	O'Connor	Teri		Monmouth County Administrator	teri.oconnor@co.monmouth.nj.us
	Oppegaard	Michael	<i>Coordinator</i>	Monmouth County Emergency Management	moppegaard@mcsonj.org
	Perselay	Geoff Perselay		Monmouth County Administration/Solid Waste	geoff.perselay@co.monmouth.nj.us
	Piccolini	Ray	<i>REP</i>	Freehold OEM-West	rpiccolini@twp.freehold.nj.us
	Rafter	Sharon Rafter		Monmouth County Community Development	sharon.rafter@co.monmouth.nj.us



Steering Committee Sign-In
December 3, 2018

Initial	Last Name	First Name	Title	Organization	Email Address
ES	Sampson	Edward		Monmouth County Planning Board	edward.sampson@co.monmouth.nj.us
	Shirley	Charles		Long Branch OEM-Mid	cshirley@longbranch.org
	Spears	Andrew		Monmouth County Park System	andrew.spears@co.monmouth.nj.us
	Tintle	Kiernan		First Energy Corp/JCP&L	ktintle@firstenergycorp.com
DM	Tobia	John	Dave Morris for John	Monmouth County DPW&E	John.tobia@co.monmouth.nj.us
	Tucker	Chris		Manasquan OEM-South	ctucker@manasquan-nj.gov
	Waldron	Benjamin		Monmouth Ocean Development Council	ben_waldron@modc.com
	Watt	James		NJDEP	James.Watt@dep.state.nj.us
	Weir	Brian		New Jersey American Water	Brian.Weir@amwater.com
CW	Wenger	Craig	PM	Michael Baker International	cwenger@mbakerintl.com
	Willis	Donald		Monmouth Ocean Regional Realtors	
	Wilson	Allison		Jersey Shore Chamber of Commerce	
MY	Yaffe	Michael	Planner	Michael Baker International	michael.yaffe@mbakerintl.com
	Zimmerman	Ines		Freehold Soil Conservation District Manager	info@freeholdscd.org



Steering Committee Sign-In
December 3, 2018


Initial	Last Name	First Name	Title	Organization	Email Address
'	WOIF	HOWARD	Comm Planner	FEMA	Howard.Woif@FEMA.DHS.gov
	Width-Sysoi	Sarah		NJOEM	lpp7711@gw.njsp.gov
BH	Heard	Bonnie	Supervising Engr	T&M associates Union Beach Borough Engr	BHeard@tandmassociates.
	McDonnell	Bill	Dep Dir	FEMA	William.McDonnell@FEMA.DHS.Gov
	Morris	David	Mgt Assist.	PW&E	david.morris@co.monmouth.nj.us

MEETING MATERIAL FOR:

February 20, 2019 - Monmouth County Municipal OEM Coordinator

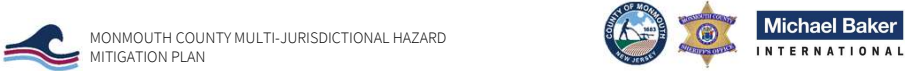
Kick-Off Meeting:





Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Kick Off Meeting


February 20, 2019



MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD
MITIGATION PLAN

Michael Baker
INTERNATIONAL

Multi-Jurisdictional Natural Hazard Mitigation Plan Monmouth County, NJ (2015)



Multi-Jurisdictional
Natural Hazard Mitigation Plan
Monmouth County, New Jersey

Prepared for



Monmouth County Office of Emergency Management
300 Halls Mill Road
Freehold, New Jersey 07728

Since the 2015 Adoption:

- 63 projects completed with Hazard Mitigation Assistance (HMA) funding
- 85 projects completed with other funding
- 29 jurisdictions with completed projects

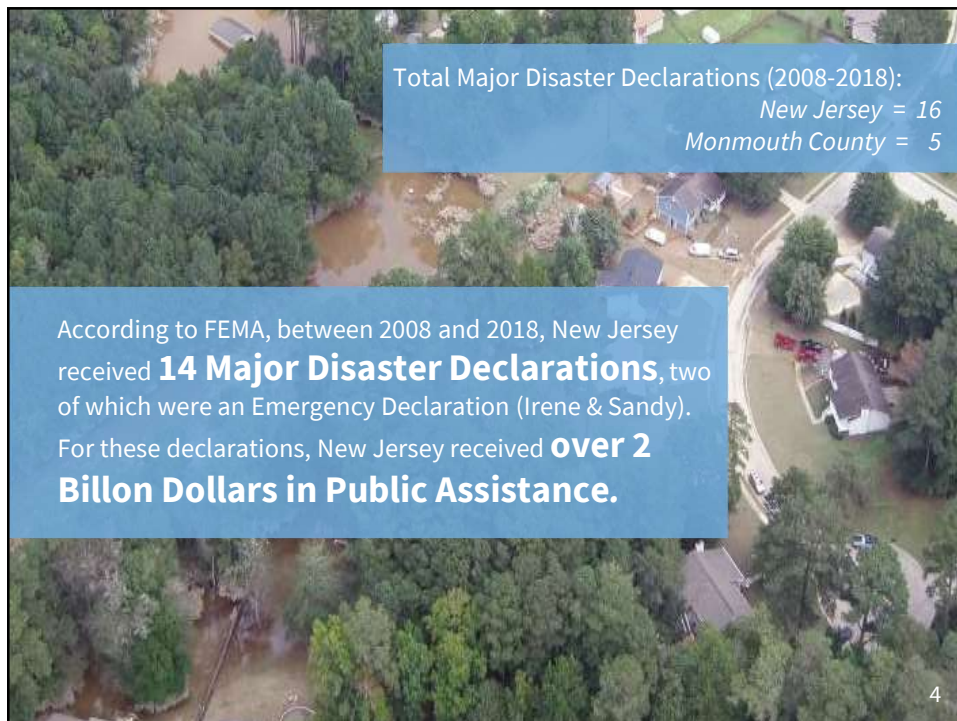
2

Key Milestones for FEMA Approval

- **Sept. - Nov., 2019** – Draft Plan review by County
- **December 1, 2019** – Submission to NJOEM
- **February 1, 2020** – Adoption of Final Plan
- **April 30, 2020** – Submission of Final Plan to FEMA



MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD
MITIGATION PLAN



What is a Hazard Mitigation Plan (HMP)?

Hazard Mitigation

- Hazard mitigation is the effort to reduce loss of life and property by lessening the impact of disasters

Mitigation Planning

- State, tribal, and local governments engage in hazard mitigation planning to identify risks and vulnerabilities associated with natural disasters, and develop long-term strategies for protecting people and property from future hazard events

Why is it Needed?

- Communities must have a hazard mitigation plan to access mitigation grants
- These grants can augment local mitigation activities already underway
- HMP must be updated every 5 years in order to remain eligible for funding

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6-Step Planning Process

1. Gather Input from Stakeholders
2. Develop Risk Assessment
3. Assess Capabilities
4. Develop Mitigation Strategy
5. Determine Plan Maintenance Process
6. Obtain Mitigation Plan Approval & Adoption

6

1 - Gather Input from Stakeholders

Public Meetings

- Risk Assessment Meeting
 - Spring 2019
- Mitigation Solutions Workshop
 - Summer 2019
- Draft Plan Review Meeting
 - Fall 2019



Michael Baker staff will attend one municipal meeting in each of the 53 municipalities.

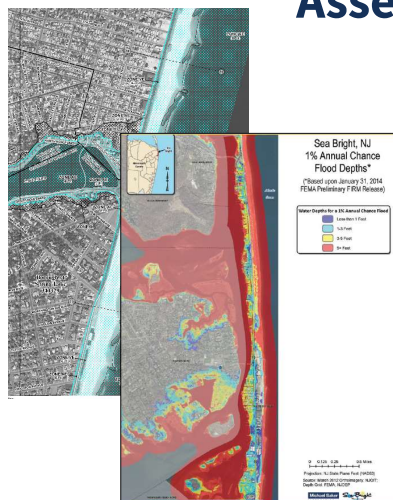
Individual Municipal Outreach

- Targeting March to June 2019



MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD
MITIGATION PLAN

2 - Develop Risk & Vulnerable Assessment



- Flood Insurance Rate Maps for 1% Annual Flood
- Hazard Mitigation Plans for Additional Risk Analysis
- HAZUS Software
- Past Disasters



MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD
MITIGATION PLAN

3 - Assess Capabilities

The image shows two forms. The first is the 'CAPABILITY ASSESSMENT WORKSHEET' which includes a header for Name, Title, Jurisdiction, and Organization. It contains a table for 'Planning & Regulatory' with columns for Plan and Yes/No. The table lists various plans: Comprehensive/Neighborhood, Capital Improvements, Economic Development, Local Emergency Operations, Continuity of Operations, Transportation, Stormwater Management, and Community Welfare Protection. The second form is the 'Endorsement Form' which has a header for the jurisdiction and a table for 'Endorsement' with columns for Plan, Date, and Signature. It lists the same plans as the first form.

- Capability Assessment Worksheets will be distributed to all municipalities and the county
- Purpose:
 - Identify strengths that could reduce losses and reduce risks in the community
 - Examines the integration of existing planning mechanisms and the HMP
 - **(New)** Jurisdictional Endorsement Form required by NJOEM



MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

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4 - Develop Mitigation Strategies

1. Structure and Infrastructure Projects
 - Elevation of Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties*
2. Local Plans and Regulations
3. Natural Systems Protection
 - Buyouts of RL and SRL properties*
4. Education and Awareness Programs

*State Hazard Mitigation Plan Priority Project

Bradley Beach Maritime Forest, Photo by Surfrider Founder

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New to this Plan Update

- Use of ESRI Story Maps

Monmouth County's Cultural & Heritage Virtual Tours

Explore Monmouth County's cultural, environmental, & historic heritage through a Virtual Tour. Seven Virtual Tours are currently available to explore, covering almost every corner of Monmouth County.

Monmouth County's Virtual Tours | South Monmouth Emerald Byway | Historic Monmouth Crossroads | MOCO Cultural Byway | Bayshore Drive | Two River Tri-way | Ocean Drive | Country to Coast Byway | Upper Freehold

The 2016 Monmouth County Master Plan recommends providing a county-based network of interconnected historic, cultural, and arts assets modeled similarly to state and federal scenic byway programs. Rather than provide physical routes for travelers to follow throughout the County, the Monmouth County Division of Planning is developing a series of virtual cultural and heritage tours that users can enjoy and explore online. This approach permits more flexibility in route selection allowing planners to greatly expand the number and type of highlighted points-of-interest along each route.

Monmouth County Byway Story Maps

The Cultural & Heritage Virtual Tours program is intended to elevate the public's awareness about the many natural, cultural, historic, scenic, architectural, institutional, and commemorative sites that are an irreplaceable component of our enhanced quality-of-life here in Monmouth County. These sites support our tourist industry attracting visitors from all over the state, if not the world. As such, they should be recognized as community assets that help convey the story of our cumulative experience. The Cultural & Heritage Virtual Tours program supports ongoing efforts by the County to perpetuate our agricultural legacy, celebrate our Jersey Shore lifestyle, safeguard our history, and promote our indigenous arts and culture. Many of us who call Monmouth County home value the sites and attractions found along the routes for various reasons. Some of us find solace in them as representative of an enduring connection to one another through a common past. Others see these features not as legacy but part of a contemporary world that interweaves old with new, natural with built, and physical with spiritual.

The county's seven (7) cultural and heritage tours plus the Upper Freehold Historic

New to this Plan Update

Seminar available on Grant Programs through FEMA's Hazard Mitigation Assistance:



**Hazard Mitigation
Grant Program (HMGP)**



**Flood Mitigation
Assistance (FMA)**



**Pre-Disaster
Mitigation (PDM)**



MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD
MITIGATION PLAN

Mitigation Strategy Goals Monmouth County HMP Update

1. Protect life.
2. Protect property and reduce economic impacts.
3. Increase public preparedness, awareness, and resiliency.
4. Develop, maintain, and monitor an understanding of risks from hazards.
5. Enhance local resilience and mitigation capabilities to reduce hazard vulnerabilities.
6. Promote hazard resilient development and protection of natural resources from natural- and human-based hazards.
7. Support continuity of operations pre-, during, and post- hazard events.
8. Support enhancement of Community Rating System (CRS) program.



MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD
MITIGATION PLAN

Mitigation Strategy Goals 2015 Monmouth County HMP

1. Promote disaster resistant development
2. Build and support local capacity to enable the public to prepare for, respond to, and recover from disasters
3. Reduce the possibility of damage and losses due to drought
4. Reduce the possibility of damage and losses due to flooding associated with coastal and inland floods, hurricanes, and nor'easters
5. Reduce the possibility of damage and losses due to earthquakes
6. Reduce the possibility of damage and losses due to lightning strikes
7. Reduce the possibility of damage and losses due to coastal erosion and wave action
8. Reduce the possibility of damage and losses due to dam failure
9. Reduce the possibility of damage and losses due to landslides
10. Reduce the possibility of damage and losses due to wildfires
11. Reduce the possibility of damage and losses due to winter storms
12. Reduce the possibility of damage and losses due to extreme temperatures
13. Reduce the possibility of damage and losses due to high winds associated with tornados, windstorms, tropical storms, hurricanes, and nor'easters
14. Reduce the possibility of damages to emergency and critical facilities from damage due to flooding, storm surge, wildfires, and extreme winds
15. Promote disaster resistance by incorporating mitigation actions into other planning mechanisms



MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD
MITIGATION PLAN

Mitigation Strategy Goals New Jersey State HMP

1. Protect life
2. Protect property
3. Increase public preparedness and awareness
4. Develop and maintain an understanding of risks from hazards
5. Enhance State and local mitigation capabilities to reduce hazard vulnerabilities
6. Support continuity of operations pre-, during, and post-hazard events



MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD
MITIGATION PLAN

Hazards Identified in the County HMP Update

Nature-Based Hazards:

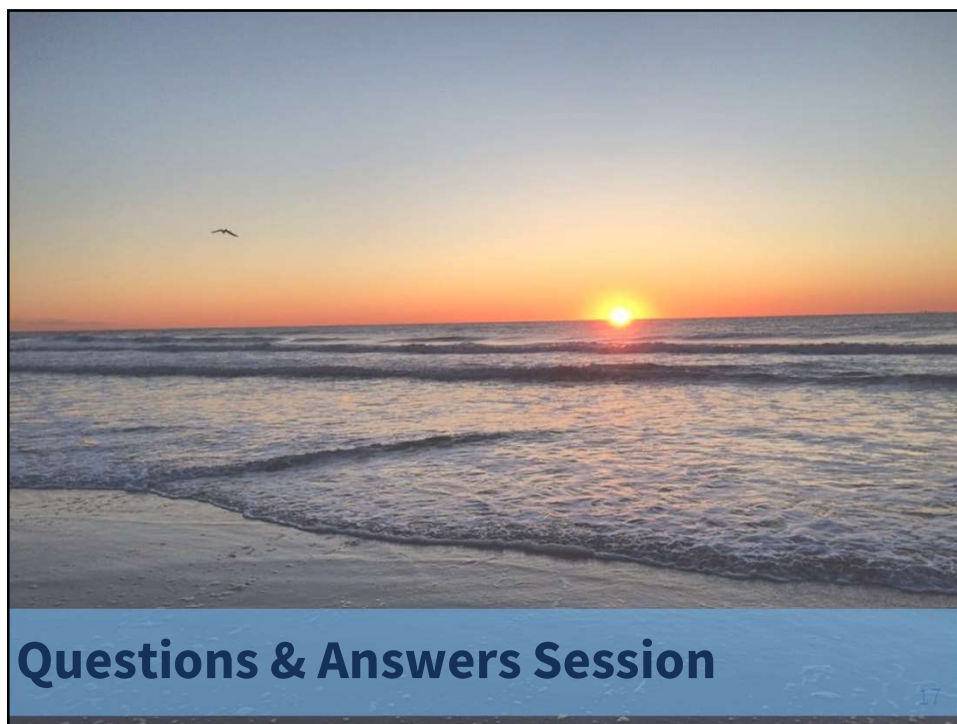
- Hurricane/Tropical Storm/Nor'easter
 - Includes Coastal Erosion, Extreme Wind, Flood, Storm Surge, Wave Action, Tsunami, and Lightning
- Dam Failure
- Drought
- Earthquake
- Extreme Temperatures
- Tornado
- Winter Storm
- Wildfire

Human-Based Hazards (new):

- Civil Unrest
- Cyber Attack
- Economic Collapse
- Pandemic/Public Health
- Power Failure
- Terrorism

Highlights to HMP Update:

- Landslide removed
- Human-Based Hazards Added
- Flood & Coastal Storm Hazards grouped under Hurricane/Tropical Storm/Nor'easter Hazard
- Climate Change and SLR impacts remain addressed in each applicable hazard



Questions & Answers Session



Thank You!

Please reach out to the Project Team with Questions.

Michael Oppegaard
Monmouth County OEM Coordinator
Michael.Oppegaard@co.monmouth.nj.us

Craig Wenger
Michael Baker Intl.
CWenger@mbakerintl.com



MONMOUTH COUNTY MULTI-JURISDICTIONAL HAZARD
MITIGATION PLAN

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MEETING NOTES

Topic: Municipal Kickoff

Date: February 20, 2019

Time: 10:00am -12:00pm; 7:00pm – 9:00pm

Location: 2000 Kozloski Rd, Freehold, NJ 07728

Attendees: County has sign-in sheet

Drafted by: Brittany Ashman

American Red Cross: MOU

American Red Cross (Disaster Program Manager) presented on the MOUs currently getting distributed to each municipality. They also announced the NJOEM is offering training on mock shelters for CERTS and survey capacity/best use of shelters.

Michael Baker: Hazard Mitigation Plan

Michael Oppegaard (Monmouth County OEM) introduced Michael Baker, the hazard mitigation process, and the goal of the plan is to be more action oriented.

Craig/Mike presented the HMP PowerPoint: explained the online process for data input; the state's priority projects of elevating the Repetitive Loss (RL) and Severe Repetitive Loss (SRL); new items to the plan update and overall alignment with the State's HMP.

Michael Oppegaard explained the County's goal to align with the State HMP (Monmouth County's HMP will be the first county to adopt their HMP after the state adopts their HMP); plan update will streamline new plan goals; lump hazards together for coastal storms; the County and Michael Baker will create a list of projects together from the mitigation strategies and Michael Baker will conduct a cost/benefit analysis, then the County needs to just apply (90% of the work will be complete at this time); the County prefers countywide applications over local applications.

Monmouth County OEM: Municipal Coordinators Meeting

Michael Oppegaard introduced new OEM staff and listed the following tools the County OEM office offers including: Municipal EOP; ETEAM; Preliminary Damage Assessment (PDA); Exercises and training; Debris Management Planning; Shelters/Mass Care: Code Blue/Code Red,

Action Items:

- Request Sign-in from Mike.
- American Red Cross is sending the project team information on their shelter training and programs, including their new Memorandum of Understanding MOU with municipalities.



- Gather Mitigation Actions identified in the Getting to Resiliency and FRAMES program for each jurisdiction that participated. These should be rolled into the County plan since it is State and FEMA approved.
- Get listing of current municipal EOP (Monmouth County OEM tracks them)
- Note in Capability Assessment that Monmouth County has the first Debris Management Plan in the State. Includes 57 Sites
- Obtain new map for all hazard planning regions from Monmouth County OEM. One of the changes is Sea Bright changed regions.
- County is looking to improve their communications systems (i.e., County Trunk Platform, State PSIC Platform, Conventional Platform, Fire/EMS operations, etc.) to increase interoperability of systems. This may become a county mitigation action.
- Note in capability assessment that the county hosts state regional meetings for training
 - o CERT Leaders Meeting
 - o State Rodeo MCSO-PSC
 - o ETEAM training
 - o Hurricane Training Day (pre-landfall, landfall, recovery scenarios)
 - o Active Shooter Partnerships and training

CAPABILITY ASSESSMENT WORKSHEET

Name: _____ Title: _____

Jurisdiction: _____ Organization: _____

Local Mitigation Capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

Planning & Regulatory

Planning and Regulatory Capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction currently has in place.

Plan	Yes/No	1. What is the date/year of the plan? 2. Does the plan address hazards? 3. Does the plan identify projects to include in the mitigation strategy? 4. Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan		
Capital Improvements Plan		
Economic Development Plan		
Local Emergency Operations Plan		
Continuity of Operations Plan		
Post-Disaster Recovery Plan		
Transportation Plan		
Stormwater Management Plan		
Community Wildfire Protection Plan		



CAPABILITY ASSESSMENT WORKSHEET

Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)		
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?
Building Code		Version/Year:
Building Code Effectiveness Grading Schedule (BCEGS) Score		Score:
Fire Department ISO rating		Rating:
Site Plan Review Requirements		
Land Use Planning and Ordinances	Yes/No	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning Ordinance		
Subdivision Ordinance		
Floodplain Ordinance		
Natural hazard ordinance (stormwater, steep slope, wildfire)		
Flood Insurance Rate Maps		
Acquisition of Land for Open Space and Public Recreation Uses		
Post-Disaster Recovery Ordinance		
Real Estate Disclose Ordinance		



CAPABILITY ASSESSMENT WORKSHEET

Other (ie. Special Purposes Ordinance)		
How can the above capabilities be expanded and improved to reduce risk?		

Administrative & Technical

Identify whether your community has the following administrative and technical capabilities. These include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. For smaller jurisdictions without local staff resources, if there are public resources at the next higher-level government that can provide technical assistance, indicate so in your comments.

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission		
Mitigation Planning Committee		
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)		
Mutual Aid Agreements		
Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official		
Floodplain Administrator		
Emergency Manager		
Community Planner		



CAPABILITY ASSESSMENT WORKSHEET

Civil Engineer		
Surveyor		
GIS Coordinator		
Scientists familiar with the hazards of the community		
Other		
Technical	Yes/No	Describe capability Has capability been used to access/mitigate risk in the past?
Warning Systems/Services (Reverse 911, outdoor warning signals)		
Hazard Data and Information		
Grant Writing		
Hazus Analysis		
Other		
How can the above capabilities be expanded and improved to reduce risk?		



CAPABILITY ASSESSMENT WORKSHEET

Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.

Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding		
Authority to Levy Taxes for Specific Purposes		
Fees for Water, Sewer, Gas, or Electric Services		
Impact Fees for New Development		
Stormwater Utility Fee		
Incur Debt Through Private Activities		
Community Development Block Grant		
Other Federal Funding Programs		
State Funding Programs		
Other (e.g., withhold spending in hazard-prone areas)		
How can these capabilities be expanded and improved to reduce risk?		



CAPABILITY ASSESSMENT WORKSHEET

Education and Outreach

Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.		
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)		
Natural Disaster or Safety Related School Programs		
StormReady Certification		
Firewise Communities Certification		
Public-Private Partnership Initiatives Addressing Disaster Related Issues		
Other		
How can these capabilities be expanded and improved to reduce risk?		





Hazard Identification Crosswalk Table

2015 Hazards Profiled	Hazards Profiled in Plan Update
Natural Hazards	
Coastal Erosion	<i>Combined with Hurricane/Tropical Storm/Nor'easter</i>
Dam Failure	Dam Failure
Drought	Drought
Earthquake	Earthquake
Extreme Temperatures	Extreme Temperatures
Extreme Wind	<i>Combined with Hurricane/Tropical Storm/Nor'easter</i>
Flood	<i>Combined with Hurricane/Tropical Storm/Nor'easter</i>
Hurricane & Tropical Storm	<i>Combined with Hurricane/Tropical Storm/Nor'easter</i>
Landslide	<i>Removed</i>
Lightning	<i>Combined with Hurricane/Tropical Storm/Nor'easter</i>
Nor'easter	<i>Combined with Hurricane/Tropical Storm/Nor'easter</i>
Storm Surge	<i>Combined with Hurricane/Tropical Storm/Nor'easter</i>
Tornado	Tornado
Tsunami	<i>Combined with Hurricane/Tropical Storm/Nor'easter</i>
Wave Action	<i>Combined with Hurricane/Tropical Storm/Nor'easter</i>
Wildfire	Wildfire
Winter Storm	Winter Storm
-	Hurricane/Tropical Storm/Nor'easter
Human-Based Hazards	
-	Civil Unrest
-	Cyber Attack
-	Economic Collapse
-	Pandemic
-	Power Failure
-	Terrorism

Note: Impacts from Climate Change and Sea-level Rise will be addressed in each applicable hazard.



Mitigation Strategy Goals for Monmouth County HMP Update

Goal Number	Goals
Goal 1	<i>Protect life.</i>
Goal 2	<i>Protect property and reduce economic impacts.</i>
Goal 3	<i>Increase public preparedness, awareness, and resiliency.</i>
Goal 4	<i>Develop, maintain, and monitor an understanding of risks from hazards.</i>
Goal 5	<i>Enhance local resilience and mitigation capabilities to reduce hazard vulnerabilities.</i>
Goal 6	<i>Promote hazard resilient development and protection of natural resources from natural- and human-based hazards.</i>
Goal 7	<i>Support continuity of operations pre-, during, and post- hazard events.</i>
Goal 8	<i>Support enhancement of Community Rating System (CRS) program.</i>

New Jersey State Hazard Mitigation Plan Goals

Goal Number	Goals
Goal 1	<i>Protect life.</i>
Goal 2	<i>Protect property.</i>
Goal 3	<i>Increase public preparedness and awareness.</i>
Goal 4	<i>Develop and maintain an understanding of risks from hazards.</i>
Goal 5	<i>Enhance State and local mitigation capabilities to reduce hazard vulnerabilities.</i>
Goal 6	<i>Support continuity of operations pre-, during, and post- hazard events.</i>



Endorsement Form

Multi-jurisdictional Hazard Mitigation Plan

Local Jurisdiction:

Name of Municipality

*I have reviewed the Hazard Mitigation Plan and certify
it is consistent with the professional duties of my office.*

MAYOR/ADMINISTRATOR:

Name (print)

Signature

Date

ENGINEER

Name (print)

Signature

Date

FISCAL/CFO

Name (print)

Signature

Date

BUILDING CODE OFFICIAL

Name (print)

Signature

Date

FLOODPLAIN ADMINISTRATOR

Name (print)

Signature

Date

EMERGENCY MANAGER

Name (print)

Signature

Date

LAND USE PLANNER

Name (print)

Signature

Date

PUBLIC WORKS DIRECTOR

Name (print)

Signature

Date

POLICE DEPARTMENT

Name (print)

Signature

Date

FIRE DEPARTMENT

Name (print)

Signature

Date

A

Monmouth County Municipal OEM Coordinator Meeting

February 20, 2018 10:00am

Sign-In Sheet

Name (Please Print)	Municipality
MACRO BALMAZA	OCEAN BORO
STAN DZINBA	LONG BRANCH
CARL BRITTA	LONG BRANCH
ROBERT MILLER	MILBURN
JOE ZAKIS	MORRISTOWN
ROBERT SWANACK	MORRISTOWN
JAMES ROSENBAUER	UPPER FREEHOLD
JUSTIN MACKO	SEA GIRT
BRIAN BOOTH	EATONTOWN
VITO GABALEA	NEPTUNE TOWNSHIP
VICTOR CRK	HOBOKEN TWP OEM
MICHAEL YATTE	MICHAEL BAKER-HILL

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Name (Please Print)	Municipality
Matt Sharin	Deal Rock Arbor Intelken
CRAMWENGE	MB1 - HMP
Ken Kelly	Kempert OEH
Adam HUBBARD	ATX ANDIC HUBBARD
Learni Gail	Duo Rod Cross
Kristen Lavo	Red Cross
Frank Cirelli	Belmar
Thomas Niece	BRIECCE
Mike Burke	colts neck
Edwin Hale	Spring lake
Dylan Ragon	Kranzburg
Scott Hrussek	Aven by the Sea
Ken Chang	Aven by the Sea
ANG HERNANDEZ	Houmae ave
JERRY CHOINACKI	SHREWSBURY BOBO

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Name (Please Print)	Municipality
28 Thomas J. Falco Jr.	MATTAWAN
29 Charles A. Rogers III	M + O E M.
30 Garsett W. Giberson	Asbury Park
31 Timothy Turnwood	Sgt Sgt Gen
32 Thomas Dean	Ocean Twp O E M
33 Shawn Brennan	Howell O E M
34 Thomas Goldfarb	Bradley Beach O E M
35 TERRY WRIGHT	BRADLEY BEACH O E M
36 Gary Beale	Bradley Beach O E M
37 Rick Deerechano	Asendesen Twp
38 Ed Zakrowski	NEPTUNE CITY
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B

Monmouth County Municipal OEM Coordinator Meeting

February 20, 2018 10:00am

Sign-In Sheet

Name (Please Print)	Municipality
1 Christopher J. Chabini	Malboro
2 Ed Junguet	Mammoth Beach
3 Tom Grillo	Keaport
4 Gary Olsen	Briewe PD
5 Ed Ken	Spring Lake PD / OEM
6 Dan Chermansky	Sea Briewe PD / OEM
7 Chris Tucker	Manasquan
8 Jack Gramlich	Wall
9 Michael Hyden	Wall
10 Keith Mitchell	Neptune City
11 Sue Haring &	Monmouth Beach
12	

C

Monmouth County Municipal OEM Coordinator Meeting

February 20, 2018 10:00am

Sign-In Sheet

Name (Please Print)		Municipality
1	Tan Rogers	Rumson
2	Christophe Williams	Spring Lake Heights
3	Steve Gombi	ALLENTOWN
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Monmouth County Municipal OEM Coordinator Meeting

February 20, 2018 7:00pm

Sign-In Sheet

	<u>Name (Please Print)</u>	<u>Municipality</u>
1	Tom Hansen	Baker
2	Pat Mason	Richland's
3	Lauri Gill	American Red Cross
4	Michael Yaffe	Michael Baker Int'l.
5	James James	Red Cross
6	Jason Nedorsick	MOEN
7	Henry A. Strecker III	Fairbairn Beach
8	Joe Barry	Monmouth Co. Planning
9	Brittany Ashman	Michael Baker
10	Thomas J Welsh	Red Bank
11		
12		

MEETING MATERIAL FOR:

July 25, 2019 - Monmouth County meeting with OEM, Engineering Department and Planning Department:





MEETING NOTES

Topic: Monmouth County HMP Meeting

Date: July 25, 2019

Time: 2:30 PM- 3:30 PM

Location: County OEM Office; 2000 Kozloski Rd. Freehoild,, NJ

Drafted by: Paige Kaspar

Introductions:

- What is Hazard Mitigation?
- Matching actions with Goals
- New Hazards
- HMP Pamphlet
- Funding

Mitigation Actions:

Monmouth County Public Works & Engineering = #55

- Community Action 36_01 – Provide assistance to NFIP’s Community Rating system (CRS) – Ongoing
 - Add to capabilities
 - Will receive a write up on MoCo’s program
- Community Action 36_02 – Support Municipal Floodplain Management Planning – Ongoing
 - Compliments CRS
- Community Action 36_03 – Online Mapping Services – Ongoing
 - Add to capabilities
 - County is working on setting up Open Source Mapping
- Community Action 36_04 – Protect and Restore Claypiut Creek and Portland Place – Ongoing
 - Plans have taken two years to put in place
 - Work should be beginning in September
- Community Action 36_05 – Acquisition of flood prone properties – Ongoing
 - Continue to purchase properties
 - Manasquan, Metedeconk
 - Acquired 225 Forno Park in Aberdeen
- Community Action 36_06 – Create and repair coastal dunes – Ongoing



- Community Action 36_07 – Floodplain restoration and re-stabilizing for Ramanessin Brook, Pine Brook, Meandering Creek, and Manasquan River – Ongoing
 - ENA program Earle/County
- Community Action 36_08 – Fire Hazard Reduction – Ongoing
 - Land clearing and controlled burns in Turkey Swamp Park two years ago
 - Coordination with Fire Marshal Office & State Forest Fire
 - Add FireWise
- Community Action 36_09 – Henry Hudson Shoreline and Slope Stabilization – Ongoing
 - Floodwall along access route
- Community Action 36_10 – Improve physical and operational preparation and county evacuation routes – Ongoing
 - Purchase lights
 - GIS – coastal evacuation signs/zones
 - Know your zones
 - Route completed: CR 14 (West Park Ave) Corridor
 - Routes ongoing: CR 8A & CR 8B, CR 12 & CR 50, CR 12A, CR 14 from SR 18 to Cotswold Circle, CR 16 & Fox Chase Dr, CR 516, CR 520 (Bridge S-32), CR 520 (Bridge H-39), CR 520 & Conover Rd, CR 520 & Wyncrest Rd, CR 537 (Bridge A-44), CR 537 & SR 34 (Bridge A - 18 & 1308-152), CR 537 & Jackson Ter & Jackson St, CR 537 (between SR 9 & Sentinel Rd), CR 537 & CR 524 (Elton-Adelphia Rd), CR 537 & CR 524 (Stage Coach Rd.)
- Community Action 36_19 – Hazard Education and Risk Awareness – Ongoing
 - High water mark sign
 - Know your zone
 - CRS outreach
- Community Action 36_20 – Shelter Hardening for Wind Damage – Ongoing
 - Status? n initiated
- Community Action 55_11 – Construct a fueling station at highway district #6 in Eatontown – Completed
 - County funded only
- Community Action 55_12 – Generators at county highway district facilities - Ongoing
 - Currently no facilities have generators
 - Looking for funding
 - Need a list
- Community Action 55_13 – Rehabilitate and upgrade dams – Ongoing
 - Dam spillways is connected to county bridge
 - High Hazard Dam
 - Lake Lefferts – ongoing, revised agreement to advance design and rehabilitation
 - Matawan Lake – ongoing, in discussion to advance design and rehabilitation
 - Perrineville Rd – ongoing, preparing RFP, reviewing scope of work with MC Park System
 - Shadow Lake – in discussion with Middletown
 - Indian Lake – Initiating discussions with owners regarding cost sharing for design phase



- Hurley Pond – Initiating discussions with owners regarding cost sharing for design phase
 - Lake Louise – Agreement with Howell, design phase is ongoing
- Community Action 55_14 – Generator at Monmouth County Hall of Records building and human services – Completed
 - Sandy Infrastructure
 - Will check status?
- Community Action 55_15 – Replace or elevate county bridges and culverts – Ongoing
 - Palmer Ave (CR 7) – Bridge H-5A, construction is ongoing, should be completed in Fall 2019
 - Aberdeen Rd – Bridge MA-11, cost share agreement in place, will advance to design phase once cost share is executed (Lake Lefferts issue)
 - Station Rd – Bridges ML-17, ML-18, & ML-19, design phase is ongoing
 - Union Ave – Bridge R-5, design phase is ongoing, DEP permit issues
- Community Action 55_16 – Inspect and Maintain the structural integrity of county infrastructure – Ongoing
 - Need to get an update from DPW
- Community Action 55_17 – Scour/Embankment protection and repairs – Ongoing
- Community Action 55_18 – Elevate highway district #8 office in Hazlet – Ongoing
- New Actions:
 - #36_21 – Bundled RL/SRL action
 - #36_22 – Managing of finances surge
 - How to distribute funds and maintain
 - What is the capacity for the county to manage the money that is coming in for the grants
 - More staff?
 - The responsibility for passing on grant money fell on the Community Development office
 -
- Successes
 - Received funding and will begin work on restoring Claypiut Creek and Portland Place in September 2019
 - Rehabilitating dams are ongoing with several dams in the design phase

CAPABILITY ASSESSMENT WORKSHEET

Name: Michael Oppegard

Title: Emergency Management Coordinator

Jurisdiction: Monmouth County

Organization:

Local Mitigation Capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

Planning & Regulatory

Planning and Regulatory Capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction currently has in place.

Plan	Yes/No	<ol style="list-style-type: none"> What is the date/year of the plan? Does the plan address hazards? Does the plan identify projects to include in the mitigation strategy? Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	Yes	<ol style="list-style-type: none"> 2016; there is a Community Resiliency chapter of the master plan in each chapter of the plan, resiliency is discussed (e.g. resiliency and art, resiliency and transportation) Yes, adopted HMP Yes Yes
Capital Improvements Plan	Yes	<ol style="list-style-type: none"> 2019 No No Yes
Economic Development Plan	Yes	Yes, an element of the Monmouth County Master Plan (2016); discusses the relationship between economic development and resiliency.
Local Emergency Operations Plan	Yes	<ol style="list-style-type: none"> 2017 Yes Yes Yes
Continuity of Operations Plan	Yes	
Post-Disaster Recovery Plan	No	
Transportation Plan	Yes	Yes, an element of the Monmouth County Master Plan (2016); discusses the relationship between transportation and resiliency.



CAPABILITY ASSESSMENT WORKSHEET

Stormwater Management Plan	Yes	Wastewater Management Plan (WMP) for Monmouth County Future Wastewater Service Area (FWSA) Map (2013); each jurisdiction is required by NJDEP to adopt their own stormwater plan.
Community Wildfire Protection Plan	No	Municipalities enforce their own local wildfire protection plans.
Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	<ul style="list-style-type: none"> Disaster Debris Management Plan (2017): the first Debris Management Plan in NJ Monmouth County Multi-Jurisdictional Coastal Flood Evacuation Plan (2017) Monmouth-Ocean County Building Officials Association Incident Action Plan (2015) Shore Re-Entry Plan (2012) Coastal Monmouth Plan (2010) Monmouth Coastal Evacuation Routes Study (2009) Damage Assessment Plan Short Term Recovery Plan State Rodeo MCSO-PSC
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?
Building Code	No	Enforced by NJ Department of Community Affairs.
Building Code Effectiveness Grading Schedule (BCEGS) Score	No	Enforced by NJ Department of Community Affairs.
Fire Department ISO rating	No	Enforced by NJ Department of Community Affairs.
Site Plan Review Requirements	Yes	Enforced by the Monmouth County Development Regulations (2004).
Land Use Planning and Ordinances	Yes/No	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning Ordinance	No	Municipalities enforce their own local zoning ordinances.
Subdivision Ordinance	No	Municipalities enforce their own subdivision ordinances.
Floodplain Ordinance	No	Municipalities enforce their own local floodplain ordinances.



CAPABILITY ASSESSMENT WORKSHEET

Natural hazard ordinance (stormwater, steep slope, wildfire)	No	Municipalities enforce their own natural hazard ordinances.
Flood Insurance Rate Maps	No	Each municipality must adopt FEMA's FIRMs.
Acquisition of Land for Open Space and Public Recreation Uses	Yes	Enforced by the Monmouth County Farmland Preservation Program.
Post-Disaster Recovery Ordinance	No	Municipalities enforce their own post-disaster recovery ordinances.
Real Estate Disclose Ordinance	No	Municipalities enforce their own natural hazard ordinances.
Other (ie. Special Purposes Ordinance)	Yes	Special Purposes Ordinance
How can the above capabilities be expanded and improved to reduce risk?		
Monmouth County could adopt a Continuity of Operations and Post-Disaster Recovery Plan to increase their capabilities.		

Administrative & Technical

Identify whether your community has the following administrative and technical capabilities. These include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. For smaller jurisdictions without local staff resources, if there are public resources at the next higher-level government that can provide technical assistance, indicate so in your comments.

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission	Yes	The Monmouth County Planning Board adopted the 2015 Hazard Mitigation Plan as an element of their Master Plan (2016).
Mitigation Planning Committee	Yes	Stormwater Technical Advisory Committee JLUS TAC
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)	Yes	Effective coordination through the Public Works & Engineering Department on county-owned drainage cleaning programs. M. Extermination – Vicki Thompson Route desnagging & ditching
Mutual Aid Agreements	Yes	Effective coordination through the Emergency Intra-County Mutual Aid Agreement. This is a FEMA approved agreement. 53 mutual aid agreements. When towns update their EOP (every 4 years) they must also recertify the mutual aid agreement with the County.



CAPABILITY ASSESSMENT WORKSHEET

Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official	No	Regulated NJ Department of Community Affairs
Floodplain Administrator	Yes	The County has Certified Floodplain Managers (CFM) on staff including the Assistant Director of Planning.
Emergency Manager	Yes	1. Full time, Office of Emergency Management 2. Yes 3. Yes 4. Yes
Community Planner	Yes	1. Full time, Division of Planning 2. Yes 3. Yes 4. Yes
Civil Engineer	Yes	1. Full time, Department of Public Works & Engineering 2. Yes 3. Yes 4. Yes
Surveyor	Yes	1. Full time, Department of Public Works & Engineering 2. Yes 3. Yes 4. Yes
GIS Coordinator	Yes	1. Full time, Division of Planning 2. Yes 3. Yes 4. Yes
Scientists familiar with the hazards of the community	Yes	The County partners with local universities, colleges, and research centers on mitigation projects
Other	No	
Technical	Yes/No	Describe capability Has capability been used to access/mitigate risk in the past?
Warning Systems/Services (Reverse 911, outdoor warning signals)	Yes	County OEM has Code Blue and Code Red which effectively alerts residents of extreme temperatures.
Hazard Data and Information	Yes	Monmouth County Division of Planning and Office of Emergency Management websites have a lot of emergency information including Know Your Zone (a public education campaign implemented by County OEM) and the High Water Mark Story Map.
Grant Writing	Yes	Internal County staff apply for grants.



CAPABILITY ASSESSMENT WORKSHEET

Hazus Analysis	Yes	The Division of Planning, GIS Section, has Hazus capabilities
Other	Yes	<ul style="list-style-type: none"> • CERT Leaders Meeting • ETEAM Training • Active Shooter Partnerships and Training for County Staff • Training and Implementation of Fire and EMS operation improvements • EOC Activation Levels • All Hazard Planning Regions • Family Assistance/Reunification • EMAA Grant funded trainings, exercises, and salary reimbursements for emergency responders
How can the above capabilities be expanded and improved to reduce risk?		
The County has ample Administrative & Technical capabilities.		

Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.

Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding	Yes	Capital Improvements Project Funding can be used to fund future mitigation actions.
Authority to Levy Taxes for Specific Purposes	Yes	
Fees for Water, Sewer, Gas, or Electric Services	No	Regulated at the municipal level and/or through MUAs.
Impact Fees for New Development	Yes	
Stormwater Utility Fee	No	Regulated at the municipal level and/or through MUAs.
Incur Debt Through Private Activities	Yes	Incur Debt through Special Taxes and Revenue Bonds.
Community Development Block Grant	Yes	Community Development Block Grant Disaster Recovery Program can be used to fund future mitigation actions.



CAPABILITY ASSESSMENT WORKSHEET

Other Federal Funding Programs	Yes	DOD Office of Economic Adjustment REPI Funding, ACE funding REPI Funds – DOD
State Funding Programs	Yes	
Other (e.g., withhold spending in hazard-prone areas)	No	
How can these capabilities be expanded and improved to reduce risk?		

Education and Outreach

Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.	Yes	The County partners with local non-profits such as NJ Sea Grant Consortium, American Littoral Society, Surfrider Foundation, and Clean Ocean Action. MCEC- eco tips Storm Water Management Stream Corridor Management Watershed Management
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	The County OEM hosts Hurricane Training Day (pre-landfall, landfall, recovery scenarios); the County Division of Planning administers the CRS Assistant Program which provides mapping services, outreach, and training to its municipalities.
Natural Disaster or Safety Related School Programs	No	Regulated at the municipal level. Two round tables a year Environmental newsletter High Water Mark
StormReady Certification	No	Certification occurs at the municipal level.
Firewise Communities Certification	No	Certification occurs at the municipal level.
Public-Private Partnership Initiatives Addressing Disaster Related Issues	No	



CAPABILITY ASSESSMENT WORKSHEET

Other		
How can these capabilities be expanded and improved to reduce risk?		

