REGIONAL PUBLIC MEETING
February 22, 2018, East Haven, CT

South Central Regional Multi-Jurisdiction Hazard Mitigation Plan Update
SCRCOG is updating the South Central Region: Multi-Jurisdiction Hazard Mitigation Plan (HMP). It incorporates the previous Regional HMP with the addition of East Haven, Guilford, Milford and New Haven. Jamie Caplan Consulting LLC with support from Milone & MacBroom and Punchard Consulting will lead the planning effort on behalf of SCRCOG.

Federal Emergency Management Agency (FEMA) Requirements Met
The purpose of the South Central Region Multi-Jurisdiction Hazard Mitigation Plan Update is to provide the Region with a comprehensive examination of all natural hazards affecting the area and to provide a framework for informed decision-making regarding the selection of cost-effective mitigation actions. These mitigation actions, when implemented, will reduce the Region’s risk and vulnerability from natural hazards. The hazard mitigation plan is a prerequisite for the municipalities to apply for state and federal mitigation grant funding.

“Reduce or eliminate risk to people and property from natural hazards.”

Opportunities for the Public to Participate
We hope you will get involved in the mitigation planning process. For more information on how you can, please visit the project webpage at http://scrcog.org/regional-planning/regional-hazard-mitigation/.

Advisory Committee
SCRCOG has formed an Advisory Committee to help lead the project, consisting of representatives from participating municipalities and other targeted stakeholders in the Region. The Advisory Committee will meet with SCRCOG staff and the consulting team a minimum of four times during the planning process. Participation by the Advisory Committee ensures continuous involvement by local staff and stakeholders.

14 Municipalities Participating
The South Central Regional Council of Governments (SCRCOG) has been awarded a grant from the Connecticut Department of Emergency Services and Public Protection, Division of Emergency Management and Homeland Security (DESSP/DEMHS) to develop a Multi-Jurisdiction Hazard Mitigation Plan Update for Bethany, Branford, East Haven, Guilford, Hamden, Madison, Milford, New Haven, North Branford, North Haven, Orange, Wallingford, West Haven and Woodbridge.
Mitigation is the effort to reduce loss of life and property by lessening the impact of disasters.

Disaster Mitigation Act of 2000 (amends the Stafford Act of 1988) and requires state and local governments to have a FEMA Approved Hazard Mitigation Plan to receive pre-disaster grant funding.
The greatest value of a hazard mitigation plan is in the implementation of cost-effective mitigation measures that reduce or eliminate short- and long-term risk to life and property.
1. Who lives in your town/city?
2. What buildings, organizations and infrastructure do the people there rely on?
3. What weather related hazards impact these people and/or the buildings, organizations and infrastructure?
4. What can be done to lessen the impact of these hazards and to protect people and property?
• Update for FEMA compliance
  – Reflect current development
  – Changes in capability
  – Mitigation project implementation
  – Updated data

• Add 4 Municipalities
  1. East Haven
  2. Guilford
  3. Milford
  4. New Haven

• 14 Municipalities – 1 Plan
Mission Statement

 Reduce or eliminate risk to people and property from natural hazards.
## DEVELOPING THE UPDATED MITIGATION PLAN

<table>
<thead>
<tr>
<th>Tasks and Deliverables</th>
<th>2017</th>
<th>2018</th>
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<tbody>
<tr>
<td></td>
<td>May</td>
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<tr>
<td>Task 1. Planning Process</td>
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<td>Advisory Committee Meetings</td>
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<td>Municipality Meetings</td>
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<td>Public Workshops</td>
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<td>Task 2. Risk Assessment</td>
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<td>Draft Risk Assessment</td>
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<td>Task 3. Capability Assessment</td>
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<td>Draft Capability Assessment</td>
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<td>Task 4. Hazard Mitigation Strategy</td>
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<td>Draft Mitigation Strategy</td>
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<td>Task 5. Plan Maintenance Process</td>
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<td>Draft Plan Maintenance Process</td>
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<td>Task 6. Adoption and Approval</td>
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<td>Municipal and Public Review and Revisions</td>
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<td>Final Draft of HMP Update for CT DESPP Review and Revision</td>
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South Central Region of Connecticut
• Gather municipality specific data
  – Critical facility identification
  – Capability assessment information
  – New mitigation actions
1. Identify Hazards
2. Collect Data
3. Develop Hazard Profiles
4. Assess Risk and Vulnerability
What Natural Hazards Impact Southern Connecticut?

• Natural hazards are natural events that threaten lives, property, and other assets.
HAZARD IDENTIFICATION AND CLIMATE CHANGE

1. Extreme Temperatures
2. Hurricane/Tropical Storm
3. Severe Thunderstorm
4. Severe Winter Storm/Nor’easter
5. Tornado
6. Coastal Erosion
7. Dam Failure
8. Drought
9. Flood
10. Sea Level Rise
11. Earthquake
12. Wildfire
• Emergency Services
• Municipal Facilities
• Shelters
• Health Care and Senior Living Facilities
• Water and Wastewater Facilities
• Tweed-New Haven Regional Airport
• North High Street Underpass at I-95
• Frontage Road Underpass at I-95
RISK ASSESSMENT PROCESS

NATURAL HAZARD
Consideration includes history, location, extent and future probability

RISK
The potential for damage, loss, or other impacts created by the interaction of natural hazards with critical facilities

CRITICAL FACILITIES
Assets of the built environment that provide services which are essential for life and economic viability
<table>
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<tr>
<th>HAZARD RISK</th>
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<tr>
<td><strong>HIGH RISK</strong></td>
<td>Severe Winter Storm/Nor’easter</td>
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<td>Hurricane/Tropical Storm</td>
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<td>Coastal Flood</td>
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<td>Riverine Flood</td>
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<td><strong>MODERATE RISK</strong></td>
<td>Tornado</td>
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<td>Sea Level Rise</td>
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<td>Severe Thunderstorm</td>
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<td>Urban Flood</td>
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<td><strong>LOW RISK</strong></td>
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Critical facilities mapped with hurricane level flood inundation.
CRITICAL FACILITIES AND FLOOD ZONES

Critical facilities mapped with FEMA Flood Zones.
Historical Resources and FEMA Flood Zones
• Education
• Ground-truthing
• FEMA requirements
• Support for future mitigation actions
• Primary Hazards of Concern
  – Trees
  – Coastal and Inland Flooding
  – Wind
  – Sea Level Rise
• Geographic Areas of Concern
  – Coastal Areas
  – Farm River and Tuttle Brook corridors
  – Pardee Place Extension, Main Street and Frontage Road
  – Cosey Beach Avenue
  – Shore Beach Road/Route 42
• Vulnerable Community Assets
  – Police Station – 417 North High Street
  – Public Works Facility – 461 North High Street
  – Tweed-New Haven Regional Airport
  – Roadways
  – Above Ground Powerlines
MITIGATION STRATEGY

• Long-term blueprint for reducing the potential losses identified in the risk assessment.

• The strategy describes how the municipalities will accomplish the overall mission of the mitigation plan.

• Mission Statement
  – Reduce or eliminate risk to people and property from natural hazards.
### MITIGATION PLAN GOALS

<table>
<thead>
<tr>
<th>Goal Categories</th>
<th>Mitigation Plan Goals</th>
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<tbody>
<tr>
<td>Community Planning</td>
<td>1. Reduce the impact of natural hazards by integrating natural hazard mitigation policies and practices into local community planning.</td>
</tr>
<tr>
<td>Flood Hazards</td>
<td>2. Minimize flood hazards in the region by maintaining continued compliance with the National Flood Insurance Program, adopting higher regulatory standards for new floodplain development, and implementing flood mitigation projects for existing flood prone structures.</td>
</tr>
<tr>
<td>Trees</td>
<td>3. Support proper care of healthy, native trees across the region to increase its resilience to natural hazards including severe storms, flooding, erosion, and extreme heat. Limit the impact of fallen and other hazardous trees by collaborating with utility companies and property owners to cut limbs and remove trees that pose threats to buildings, infrastructure and utility lifelines.</td>
</tr>
<tr>
<td>Regional Collaboration</td>
<td>4. Build capacity for natural hazard mitigation and climate adaptation at the local level through regional collaboration.</td>
</tr>
<tr>
<td>Public Awareness and Preparedness</td>
<td>5. Increase public awareness and preparedness for natural hazards by implementing community-based public education programs across the region.</td>
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## SCRCOG Mitigation Plan Objectives

<table>
<thead>
<tr>
<th>Objective Category</th>
<th>Mitigation Plan Objectives</th>
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<tbody>
<tr>
<td>Mitigation Planning</td>
<td>1. Stay actively involved in mitigation planning for the SCRCOG region.</td>
</tr>
<tr>
<td>Multi-Jurisdiction Collaboration</td>
<td>2. Facilitate multi-jurisdiction collaboration between the SCRCOG jurisdictions.</td>
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<tr>
<td>Education</td>
<td>3. Provide education regarding natural hazards, grant opportunities, and mitigation and preparedness techniques.</td>
</tr>
<tr>
<td>Floodplain Management</td>
<td>4. Assist the SCRCOG jurisdictions with floodplain management and lessening the impact of flooding to the region.</td>
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WHAT DOES HAZARD MITIGATION LOOK LIKE?

• Actions that reduce or eliminate long-term risk to people, property, and resources from natural hazards.
MITIGATION TECHNIQUES

1. Local Planning and Regulations
   • Land use plans, building codes, open space preservation, and stormwater management

2. Structure and Infrastructure Projects
   • Utility undergrounding, structural retrofits, culverts and detention structures

3. Natural Systems Protection
   • Stream corridor restoration, wetland restoration, erosion control

4. Education and Awareness Programs
   • Flood risk program
200+ MUNICIPAL-SPECIFIC MITIGATION ACTIONS
MITIGATION ACTIONS IN EAST HAVEN

• East Haven Pump Station Resiliency Implementation Project
  – This project, to be led by the GNHWPCA, addresses flood resiliency at the following four (4) pump stations: Cosey Beach; Minor Road; Meadow Street; and Fairview Road.
  – Modify the existing sanitary sewer infrastructure facilities to reduce or eliminate the long-term risk of flood damage to these pump stations.
• Continue the Natural Hazards Awareness Week.
• Continue to use modeling techniques to evaluate different flood mitigation options along the Farm River including floodplain storage, channel clearing, diversions, berms, dikes, bridge replacement, and culvert replacement as well as home elevations and acquisitions.
• Develop a plan to prioritize snow removal from the roof of municipal buildings (especially critical facilities) and have funding available for clearing.
MITIGATION AND PREPAREDNESS – WHAT CAN YOU DO? WHAT CAN YOUR COMMUNITY DO?

MITIGATION ACTIVITIES FREQUENTLY TAKEN BY THE PUBLIC

- Raised furnace or water heater: 48%
- Bought flood insurance: 23%
- Sealed basement walls: 26%
Survey Available Now!

English: https://www.surveymonkey.com/r/CTMitigation
Spanish: https://es.surveymonkey.com/r/CTMitigationSpanish

Plan Review in March 2018
• Public Review
• State Review
• FEMA Review and “Approval Pending Adoption”
• Municipality Adoption
THANK YOU

Survey Available Now!

English:
https://www.surveymonkey.com/r/CTMitigation

Spanish:
https://es.surveymonkey.com/r/CTMitigationSpanish

Project Website
http://scrcog.org/regional-planning/regional-hazard-mitigation/