



# Municipal Vulnerability Preparedness Program



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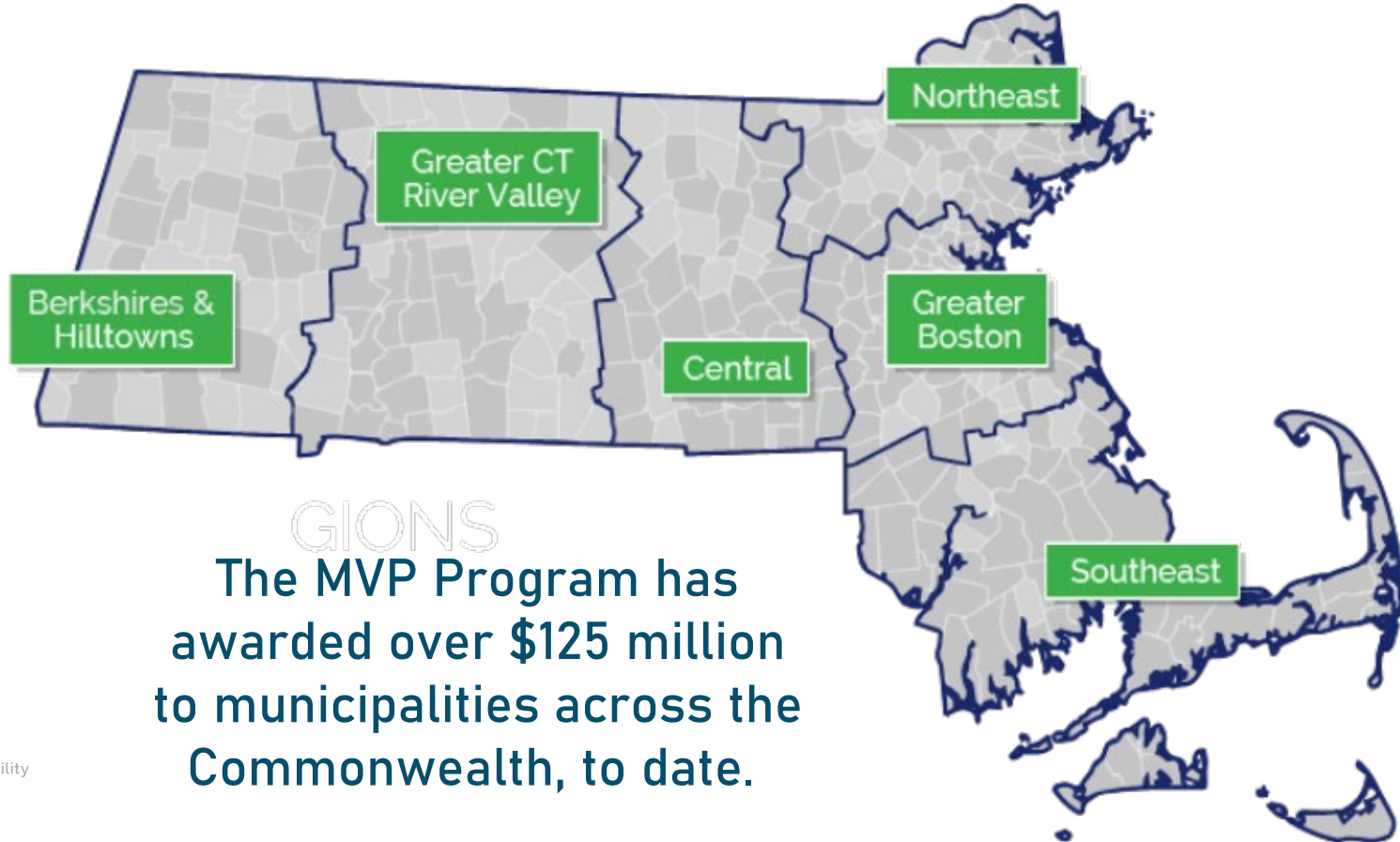
# Municipal Vulnerability Preparedness (MVP) Grant Program

## MVP Planning Grant Process

99% participation  
349 communities

## MVP Action Grant Projects

FY 18: 37  
FY 19: 36  
FY 20: 53  
FY 21: 41  
FY 22: 66  
FY 23: 73  
FY 24: 80 (\$27m)



REGIONS

The MVP Program has  
awarded over \$125 million  
to municipalities across the  
Commonwealth, to date.



**MVP**

Municipal Vulnerability  
Preparedness





# Building Climate Resilience

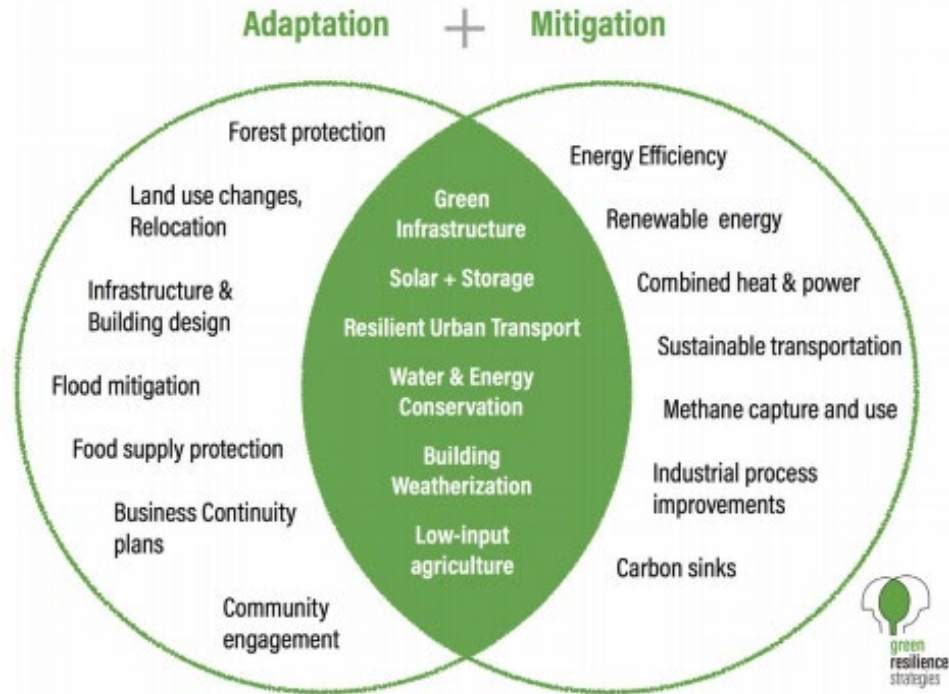


**Climate resilience**  
is the ability of a  
community to  
**address the needs**  
of its built, social, and  
natural environment  
**to anticipate, cope**  
**with, and rebound**  
**stronger**  
from events and trends  
related to  
**climate change**  
**hazards.**

This photo is a concept design for a sustainable community in Edmonton, Alberta, Canada called an "agrihood" - agricultural neighborhood.  
<https://www.watershedhealth.org/single-post/2018/06/22/summersciencefriday-what-do-climate-resilient-neighborhoods-look-like>



# Building Climate Resilience

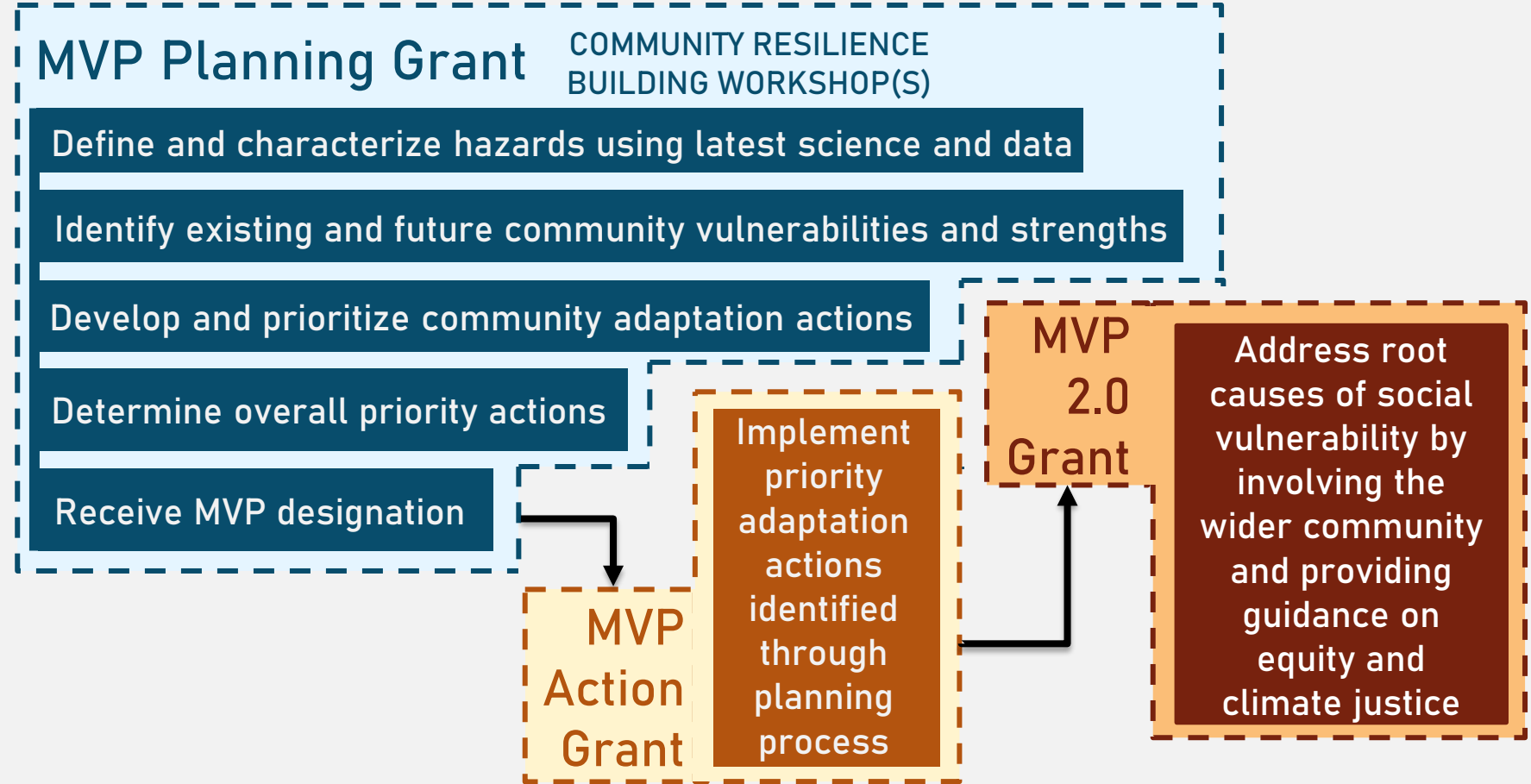


*Figure 1: Climate Adaptation and Mitigation Synergies*

*Green Resilience Strategies (2017)*

*Graphic concept modified with acknowledgement of David MacLeod, City of Toronto*

# MVP Process & Grant Types





# Reflecting on MVP Planning Process

With 99% of the Commonwealth participating in the original MVP Planning Grant, we asked, "What's next?"

The MVP Team conducted an extensive review process that included municipalities, consultants and CBO leaders to gather feedback on the MVP Planning Program, and heard:

Planning fatigue!

Limited community engagement and participation during planning process

Need more support to better understand social vulnerability & environmental justice

Desire for more training on MVP core principles like community engagement

MVP certified, but haven't been successful in receiving action grants

Desire for stronger relationships between municipalities and CBOs

Would like more flexibility in planning process

# Municipal Vulnerability Preparedness (MVP) 2.0 Pilot

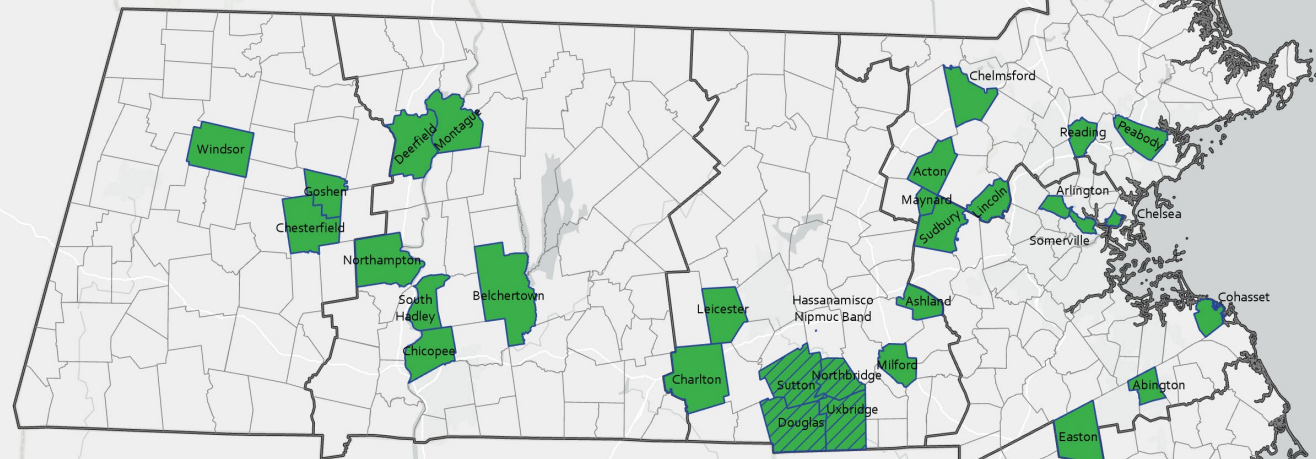


MVP 2.0 focuses on revisiting local climate resilience priorities through an equitable & inclusive process and building out & implementing these priorities.





**Eligibility for Pilot:  
Municipalities,  
MVP-eligible  
Tribes, and MVP-  
eligible RPAs  
(applying on behalf of  
one or more  
municipalities)**



- MVP regions
- Awarded Municipality
- ▨ Awarded Regional Process

Planning 2.0 Pilot

# MVP 2.0 Pilot Cohort





# MVP Core Principles



Furtheres a community identified priority action to address climate change impacts.



Employs Nature-based solutions (NBS).



Increasing equitable outcomes for Environmental Justice (EJ) and other priority populations and addressing the root causes of social vulnerability.



Achieves broad and multiple community benefits.



Builds community capacity for climate resilience.



Commits to monitoring project success and maintaining the project into the future.



Conducts robust community engagement and supports strong partnerships with EJ and other priority populations.



Utilizes regional solutions for regional benefit.



Utilizes climate change data for a proactive solution.



Pursues innovative, transferable approaches.

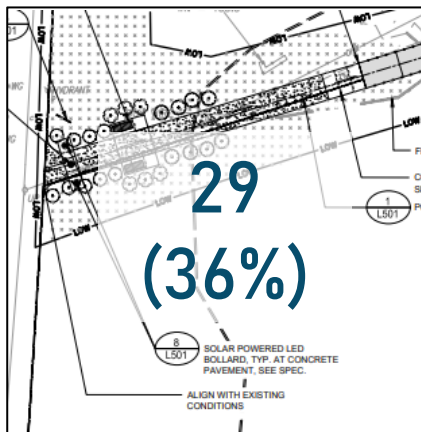


## MVP Action Grant Projects Awarded in FY24-25 by Project Type:

Planning, Assessments,  
Capacity Building, and  
Regulatory Updates



Design and Permitting



Construction and  
Implementation

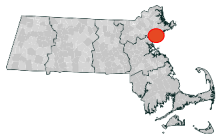


Since 2018, MVP has funded the protection of over 1000 acres of land.

# Collins Cove to Willows Resilience Study



## Salem FY23



Learn More:

Project website: [Collins Cove to Willows Resilience Study – PublicInput](https://collinscove.org/); Project StoryMap: <https://arcg.is/OXrian>

**AWARD**

\$234,565

**MATCH** \$78,257

**PROJECT TYPE**

Planning, Assessments, Capacity Building, and Regulatory Updates

**CORE PRINCIPLES  
DEMONSTRATED**

Utilizing climate change data for a proactive solution;  
Pursuing innovative, transferable approaches

**DESCRIPTION**

- Engaged public with several community presentations, walk and talks, and a StoryMap.
- Developed a climate resiliency toolkit.
- Assessed vulnerabilities.
- Modeled stormwater scenarios for both present day and future conditions.

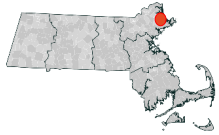




# Ipswich River Sewer Interceptor and Siphon Risk Mitigation and Resiliency Improvements Project – Bank Biostabilization Construction



## IPSWICH FY22



Learn More:

- <https://www.ipswichma.gov/930/Ipswich-River-Sewer-Interceptor-Biostabi>

### AWARD

\$117.8k

**MATCH** \$54.7k

### PROJECT TYPE

Construction and On-the-Ground Implementation

### CORE PRINCIPLES DEMONSTRATED

Employing Nature-Based Solutions; Achieving Broad and Multiple Community Benefits

### DESCRIPTION

- Biostabilization plan implemented nature-based solutions to improve natural systems for community and ecosystem adaptation sources to make a broad impact in the community and protect sewer.
- Native plantings and toe stone create new habitat
- Community feedback and participation helped shape project: design coordination, plantings selection, Council on Aging Site Walk, Multi-lingual Project handouts, project poster designed by H.S. Environmental club.

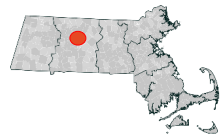






# Greening Lord Pond Plaza, Phase 2

## Town of Athol, MA FY22-23



[Greening Lord Pond Plaza Project Website](#)

### AWARD

\$189,030

### PROJECT TYPE

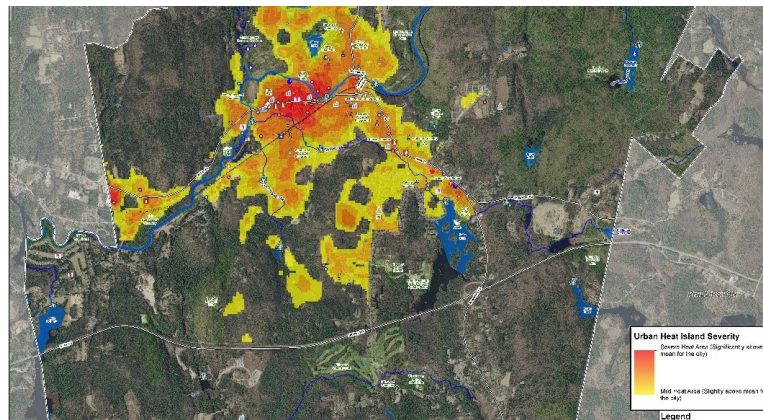
Design and Permitting

### CORE PRINCIPLES DEMONSTRATED

Employing Nature-Based Solutions; Achieving broad and multiple community benefits; and Furthering a community identified priority action to address climate change impacts.

### DESCRIPTION

Applies nature-based solutions to daylight a culverted brook, create wetlands, add greenspace, and increase flood storage in downtown Athol. Additional co-benefits: significant reduction of impervious surface at the plaza, increased tree canopy cover, improved vehicular and pedestrian safety, and additional opportunities for public gathering spaces as well as new fish and wildlife habitat and improved stream connectivity.





# Pine Island Pond Watershed Lands Project: Mattapoissett FY19 Action Grant



**Partners:** Mattapoissett Land Trust & Buzzards Bay Coalition



Learn More:

[Case Study](#)

[Project Slides](#)

**REGION**

Southeast

**AWARD**

\$960,000

**MATCH**

\$460,000

**PROJECT TYPE**

Construction and On-the-Ground Implementation

**CORE PRINCIPLES  
DEMONSTRATED**

Employing Nature-Based Solutions

**PRIORITIES**

Protect 120 acres that are highly vulnerable to sea level rise and storm surge allowing for natural flood protection & migration of salt marsh habitat





## Projects that are NOT MVP-competitive:

- Diesel generators
- Tree removal
- FEMA Hazard Mitigation Plans
- Academic studies that are not directly linked to implementation
- Feasibility or design of solar or solar + battery systems (installation ok)
- Emergency preparedness projects that don't incorporate climate projections/planning
- Projects that repair to previous conditions without consideration of climate projections
- Projects that include building construction where the building will rely on nonrenewable sources of energy



[TOOLS & DATA](#) ▼[LEARN](#) ▼[TAKE ACTION](#) ▼[ABOUT](#) ▼[Resource Clearinghouse](#)[Maps and Data Center](#)[Climate Resilience Design Standards & Guidance](#)[Guides for Equitable & Actionable Resilience \(GEAR\)](#)

**Advancing Climate Resilience  
Across the Commonwealth**

Feedback



**Climate Resilience Design Standards Tool**  
Apply statewide data to assess the climate resilience of your project site.

[LEARN MORE >](#)



**ResilientMass Maps and Data Center**  
Explore the latest statewide climate data and projections.

[LEARN MORE >](#)



**Climate Resilience Funding**  
Learn about EEA's municipal grants supporting climate resilience.

[LEARN MORE >](#)

**ResilientMass is the Commonwealth's initiative for building statewide capacity for climate change adaptation and resilience. ResilientMass provides funding, localized climate change science and data, and decision support tools for the Commonwealth to facilitate action that enhances climate resilience for local planners, practitioners, policymakers, and the public.**

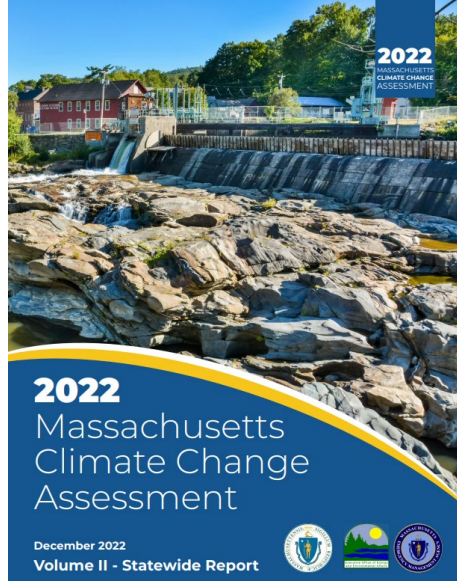


## 2022 Massachusetts Climate Change Assessment

December 2022  
Volume I - Executive Summary



The Executive Summary is available in seven languages: English, Spanish, Portuguese, Cape Verdean Creole, Haitian Creole, Chinese, and Vietnamese.



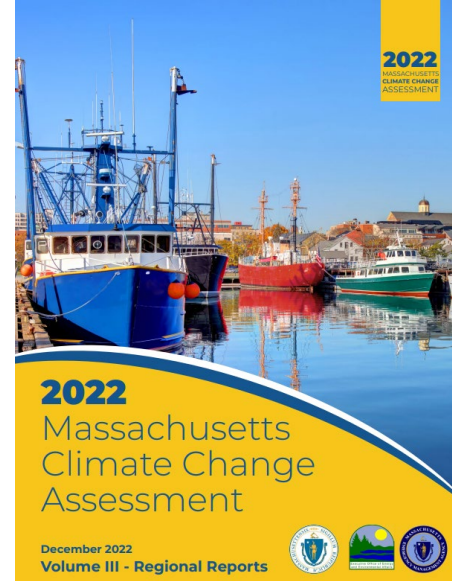
## 2022 Massachusetts Climate Change Assessment

December 2022  
Volume II - Statewide Report



The Statewide Report includes three appendices:

- Appendix A: Full Statewide Impact Rankings and Scores by Sector
- Appendix B: Additional Information on Climate Inputs and Assessment Methods
- Appendix C: Stakeholder Engagement



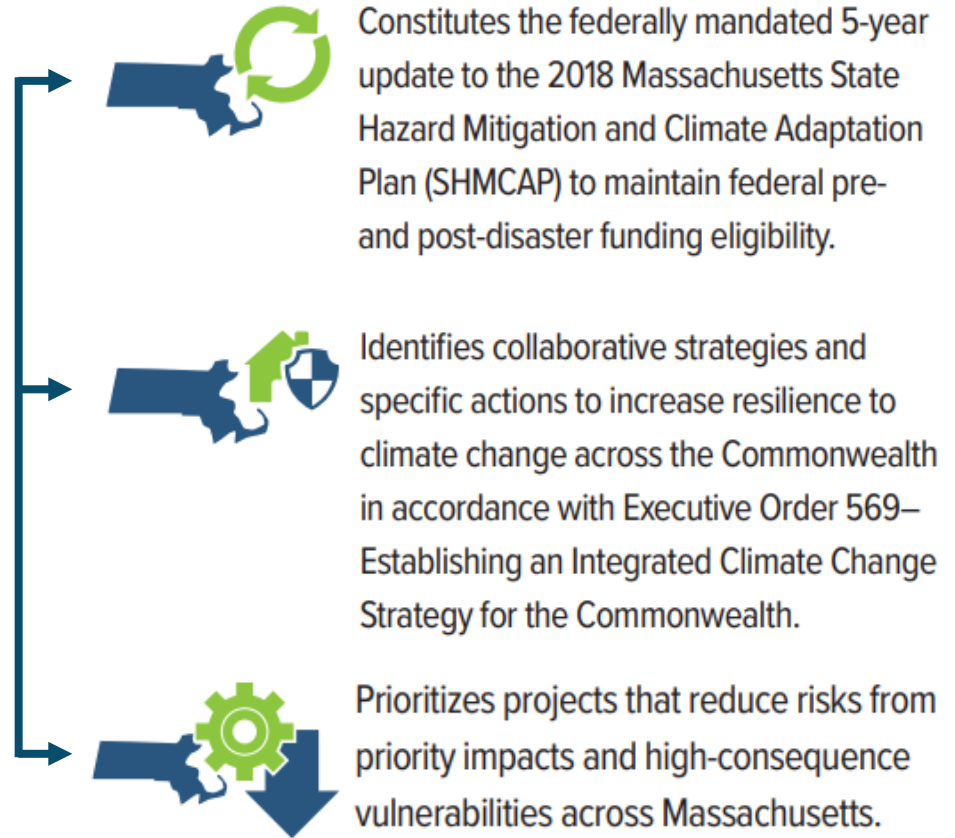
## 2022 Massachusetts Climate Change Assessment

December 2022  
Volume III - Regional Reports



The Regional Reports include two-page summaries per region that are also available in seven languages.

# ResilientMass Plan: 2023 Massachusetts State Hazard Mitigation and Climate Plan October 2023







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<https://resilient.mass.gov/mvp/>

