

# Core Team Kickoff Meeting **December 15, 2021**







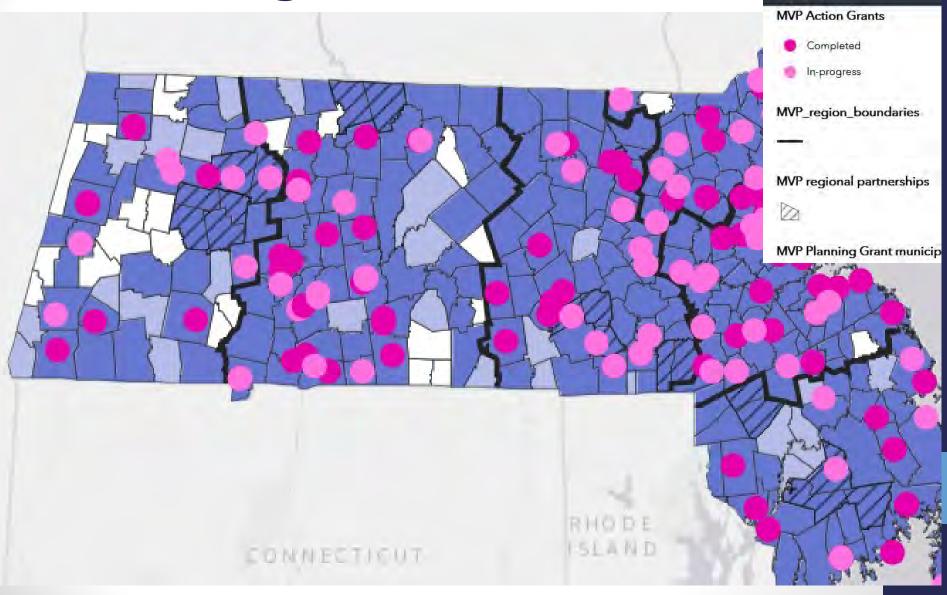
#### Welcome & Introductions



# Agenda

- Project scope and planning process
- Climate change impacts and vulnerabilities
- Goals of MVP process in Ludlow
- Workshop logistics and attendance
- Data needs
- Next steps

## **MVP** Program



Legend

#### **MVP** Process

#### **MVP Planning Grant**

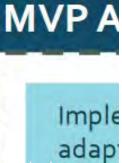
Define and characterize hazards using latest science and data

Identify existing and future community vulnerabilities and strengths

Develop and prioritize community adaptation actions

Identify opportunities to take action

Conduct community engagement



COMMUNITY RESILIENCE BUILDING WORKSHOP(S)

# Town of Ludlow MVP/HMP Planning Grant

Task Name	December	January	February	March	April	Мау	June	Next SFY
Core Team Meetings	x	x	x			x		
Quarterly Reporting	х			х			х	
Set up community email	x							
Community survey?	x	x						
Information sharing events	x	x	x	x				
Data gathering and stakeholder interviews	x	x	x					
MVP CRB Workshop/s				х	x			
Draft Summary of Findings Report								
Community Listening Session/s						x	х	
Finalize Summary of Findings Report							х	
Submit Final Materials to EEA							х	
Hazard Mitigation Plan Update								
Meetings to review draft updates	x	х		х	x		x	
Submit to MEMA for submission to FEMA							х	
FEMA Approval								Х
Local Adoption								x

# Community Resilience Building (CRB) Process

Prepare for the Worksh

Characterize Hazards

Identify Community Vulnerabilities and Stre

Identify and Prioritize Community Actions

DURING WORKSHOP

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Determine the Overall Priority Actions



#### HMP Update Process

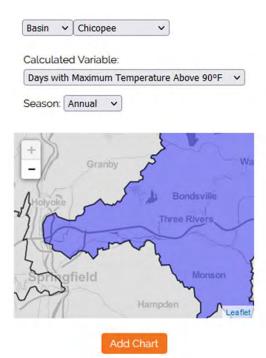


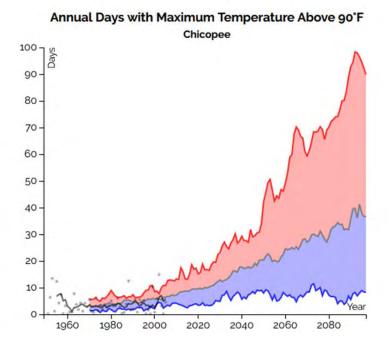
# Climate Change Impacts on Natural Hazards

#### Climate Change Projections for Massachusetts

CLIMATE CHANGES	RELATED NATURAL HAZARDS	PROJECTIONS BY THE END OF THIS CENTURY
+ 1	- Drought	<ul> <li>Annual precipitation: Increase up to 16% (+7.3 inches)</li> <li>Days with rainfall accumulation 1+ inch: Increase up to 57% (+4 days)</li> <li>Consecutive dry days: Increase 18% (+3 days)</li> <li>Summer precipitation: Decrease</li> </ul>
	<ul> <li>Invasive species</li> </ul>	<ul> <li>Average annual temperature: Increase up to 23% (+10.8 degrees Fahrenheit)</li> <li>Days/year with daily minimum temperatures below freezing: Decrease up to 42% (-62 days)</li> <li>Winter temperatures: Increase at a greater rate than spring, summer, or fall</li> <li>Long-term average minimum winter temperature: Increase up to 66% (+11.4 degrees Fahrenheit)</li> <li>Days/year with daily maximum temperatures over 90 degrees Fahrenheit: Increase by up to 1,280% (+64 days)</li> <li>Growing degree days: Increase by 23% to 52%</li> </ul>
(c)	<ul><li>Severe winter storms/nor'easters</li><li>Tornadoes</li><li>Other severe weather</li></ul>	- Frequency and magnitude: Increase

#### Climate Change Impacts – Chicopee River Basin



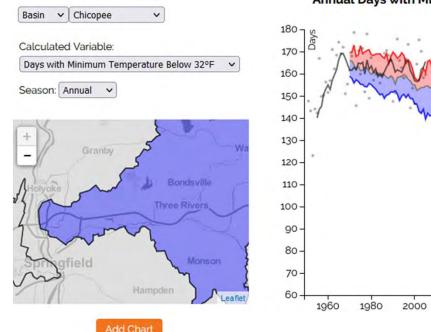


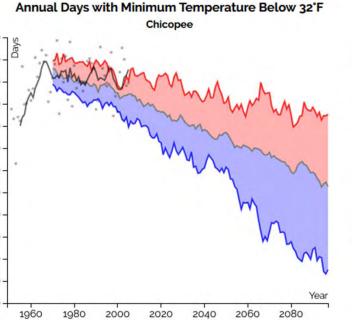
Observ	red
	days
5-yr Mean	1
Modeled	days
Мах	1
Median	1
Min	1
Changes 1971-200	
1.22	11.27
2020 -	11.6/
2049	days 17.95
2049 2040 -	days 17.95
2049 2040 - 2069	days 17.95 days 26.13
2049 2040 - 2069 2060 -	days 17.95 days
2020 - 2049 2040 - 2069 2060 - 2089 2080 -	days 17.95 days 26.13

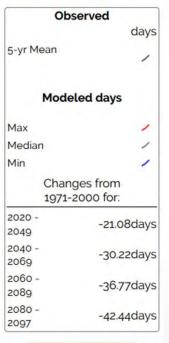




#### Climate Change Impacts – Chicopee River Basin





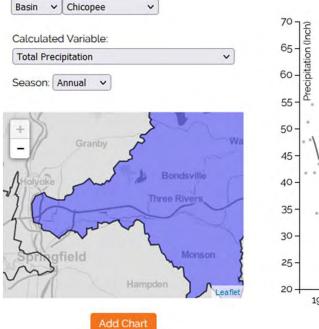


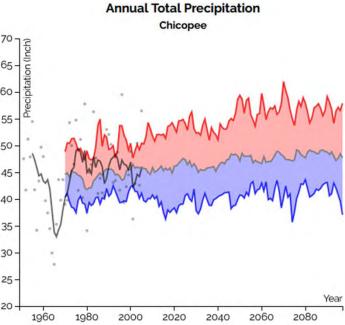
Download Data





#### Climate Change Impacts – Chicopee River Basin





Download	Data	
Observed		
	Inches	
5-yr Mean	/	
Modeled I	nches	
Max	1	
Median	1	
Min	1	
Changes 1971-200		
2020 - 2049	0.77"	
2040 - 2069	1.72"	
2060 - 2089	2.52	
2080 - 2097	2.92*	





# Goals

- Why does Ludlow need to discuss current and future impacts of hazards?
- How will Ludlow use the information and decisions developed during the process?

# What Does Ludlow Get Out of This Process?

- Understanding of local strengths and vulnerabilities
- Eligibility to apply for funding to implement priority projects
  - MVP Action Grants
  - FEMA Hazard Mitigation Assistance Grants

Applicant	Project Title	Recommended Funding
Concord	Reforestation and Tree Resilience	\$150,000
Deerfield	Reducing Flooding Vulnerability in Deerfield	\$278,023
Northampton	Protecting Downtown: Northampton's Flood Control Levees	\$315,000
Walpole	Culvert Assessment and Green Infrastructure Survey	\$166,496
Wrentham	Eagle Dam Removal	\$46,000

#### Core Team Roles and Responsibilities

- Provide local information and expertise
- Identify and engage stakeholders
- Attend and participate in meetings, workshop(s), and public listening session(s)
- Review and provide input on draft plan chapters, hazard maps, and priority actions

#### Workshop Schedule and Logistics

- In person or virtual
- One day (6-8 hours) or two half-days (4 hours each)
- If in person, suitable location
- Date(s) and time(s) March/April timeframe



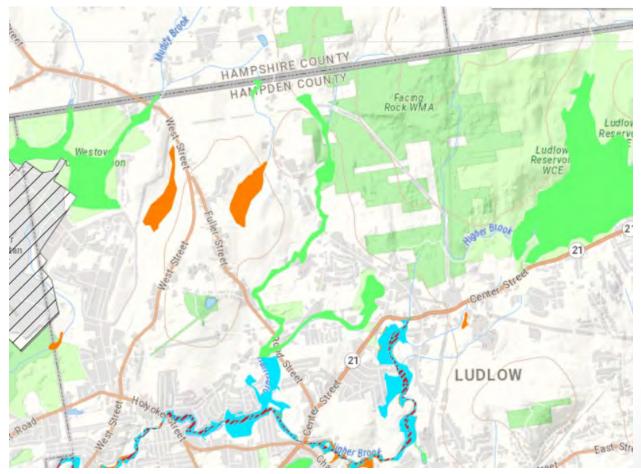


#### Stakeholder Identification

- Who are the key decision makers in your community?
- Who is directly responsible for implementing decisions?
- Who has influence on decisions in your community?
- Which entities will be impacted by decisions?

#### Data Needs

- Past plans, studies, or reports
- Any specific hazard mapping needed?



#### Next Steps

- Send community photos to <u>etully@pvpc.org</u>
- Schedule next meeting
- Finalize list of participants
- Finalize workshop dates
- Finalize outreach and publicity plan
- Schedule stakeholder interviews