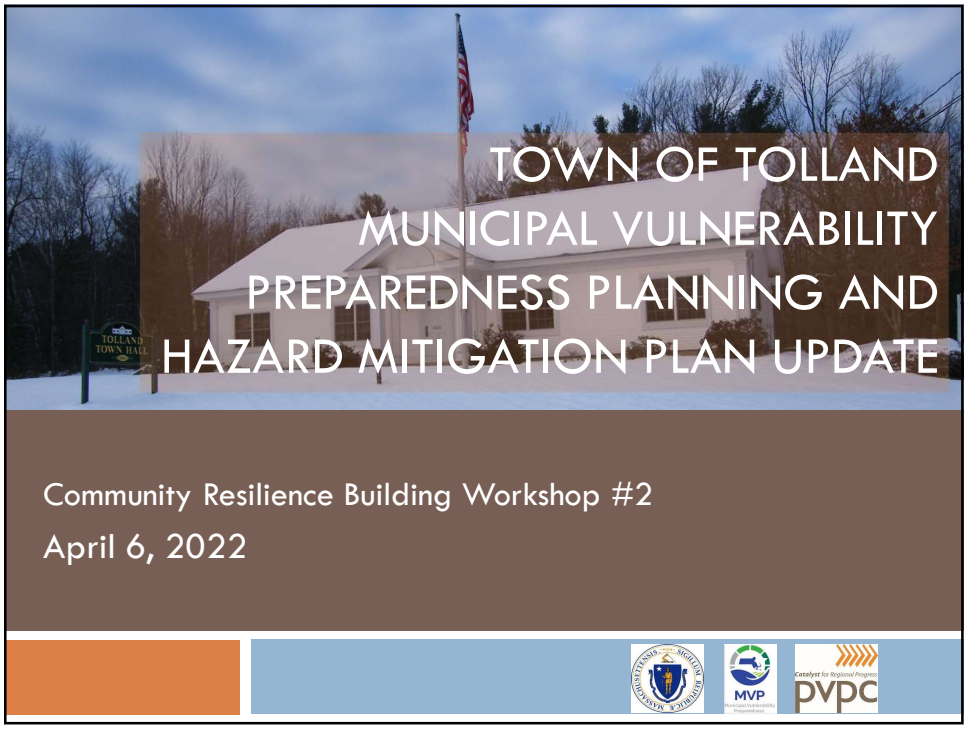
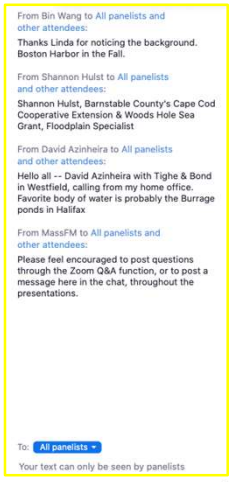


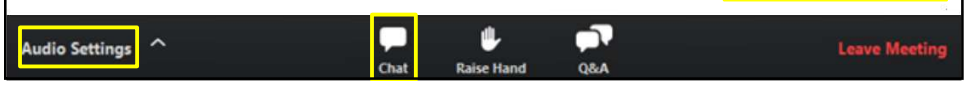
1

Notes on Virtual Participation

- This meeting is being hosted on Zoom
- Use chat box for technical questions
- Keep an eye on the chat box for links and other helpful information from meeting moderators

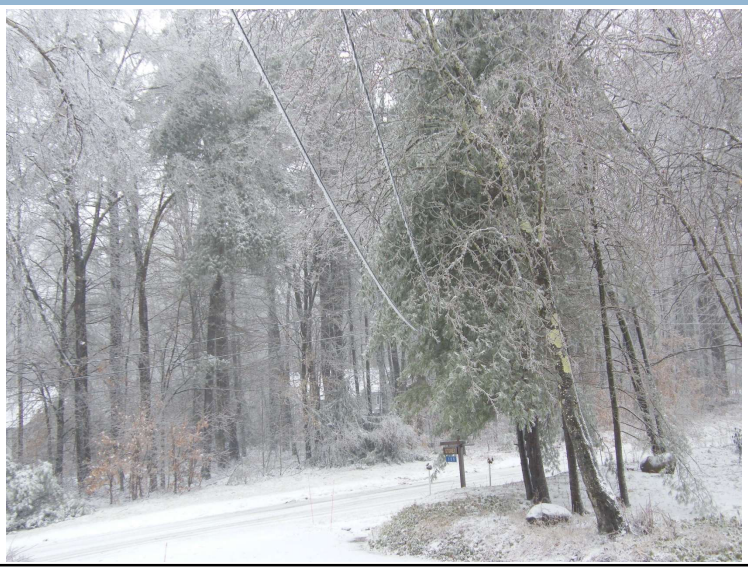
This meeting is being recorded





2

Welcome & Introductions



3

Thank You to Tolland's MVP/HMP Committee!

- Jeff LaCasse, Tolland Emergency Management Director
- Pat Storey, Council on Aging
- Alan Binder, Conservation Commission
- Charlie Higham, Pond Committee
- Ed Deming (ret.) / Kate Donovan, Highway Superintendent

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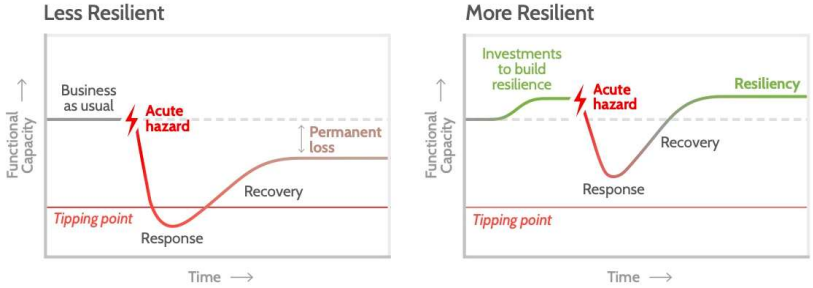
Workshop Agenda

- Presentation - introduction/overview of MVP/HMP planning grant, climate change and natural hazards
- Working together – develop inventory of environmental strengths & vulnerabilities
- Presentation – overview of what mitigation actions are, what types are competitive for Action Grants
- Working together – brainstorm mitigation actions to address environmental strengths & vulnerabilities
- Presentation – next workshop topic, follow-up actions and survey to prioritize mitigation actions

5

Why Are We Here?

- Help the Town of Tolland improve preparedness for and resilience to natural hazard events



U.S. Climate Resilience Toolkit: https://toolkit.climate.gov/image/3144

Resilient communities don't just recover—they continuously build capacity to reduce the impacts of future climate events

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MVP Planning Grant

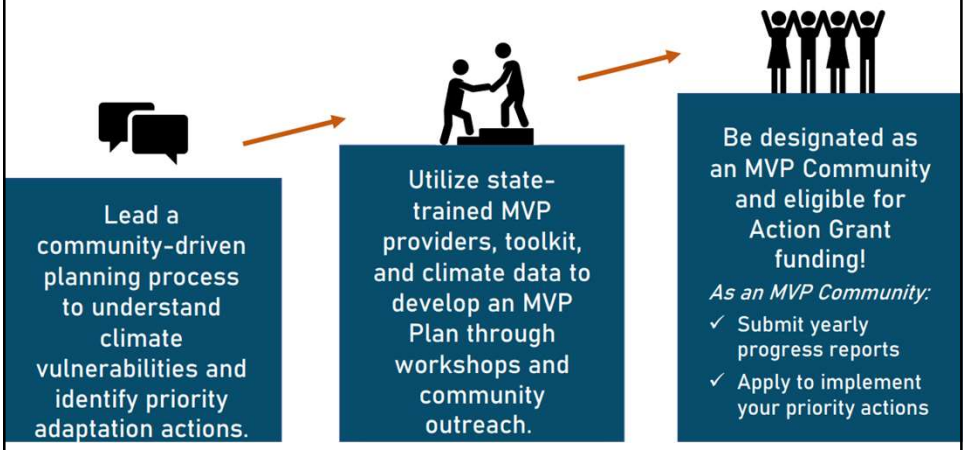

Image from the MVP Program's Pre-FY23 RFR Webinar

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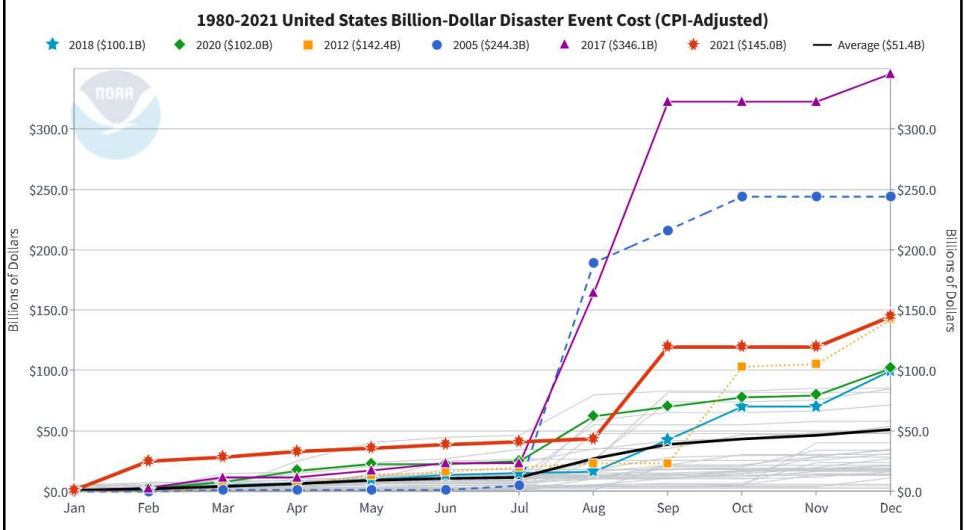
The Future of Natural Hazards



https://www.climate.gov/news-features/blogs/beyond-data/2021-us-billion-dollar-weather-and-climate-disasters-historical

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Climate Change - Statewide

Massachusetts Climate	Observed Changes	Projected Changes by 2090
Temperature	2.9° F since 1895	7.2° F annual average
Growing Season	15 days since 1950	
90° Days		34 days annually
Sea Level Rise	11 in since 1922	4 to 10.2 ft above MSL
Heavy Precipitation	55% since 1958	47% annually

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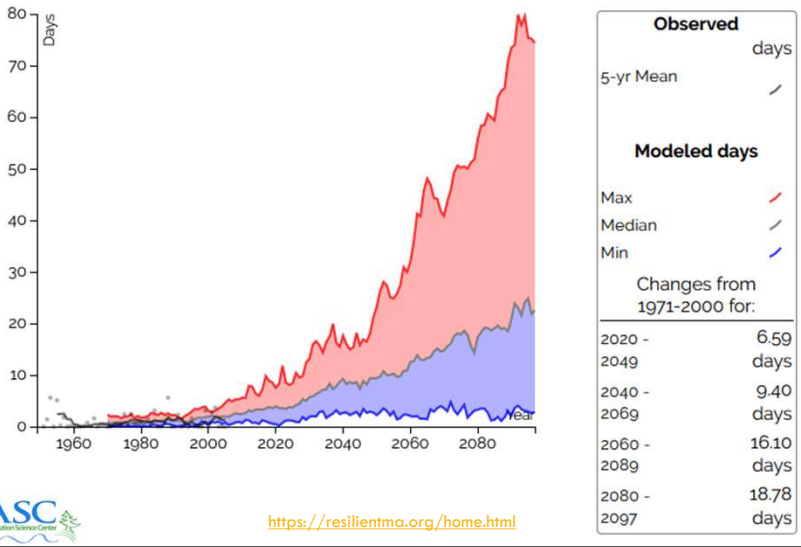
Climate Change – Farmington River Basin, Annual Days Over 90° F



NECASC Northeast Climate Adaptation Science Center

https://resilientma.org/home.html

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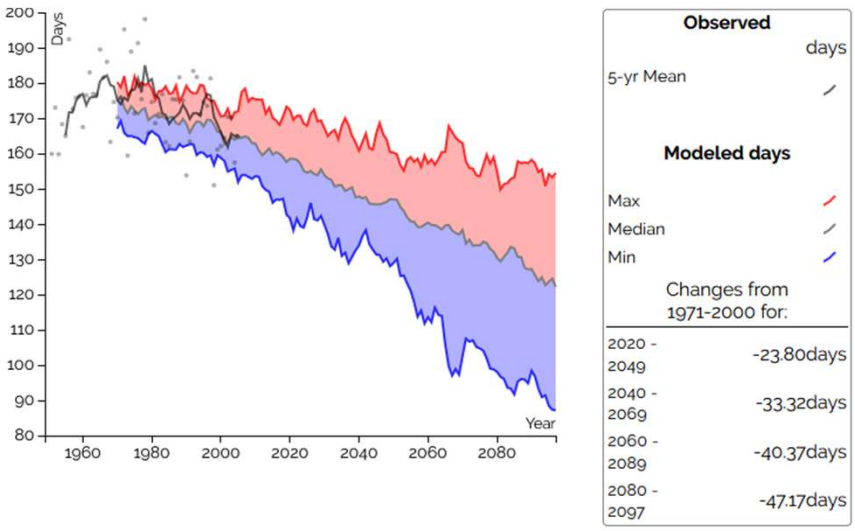
Climate Change – Farmington River Basin, Annual Days Below 32° F



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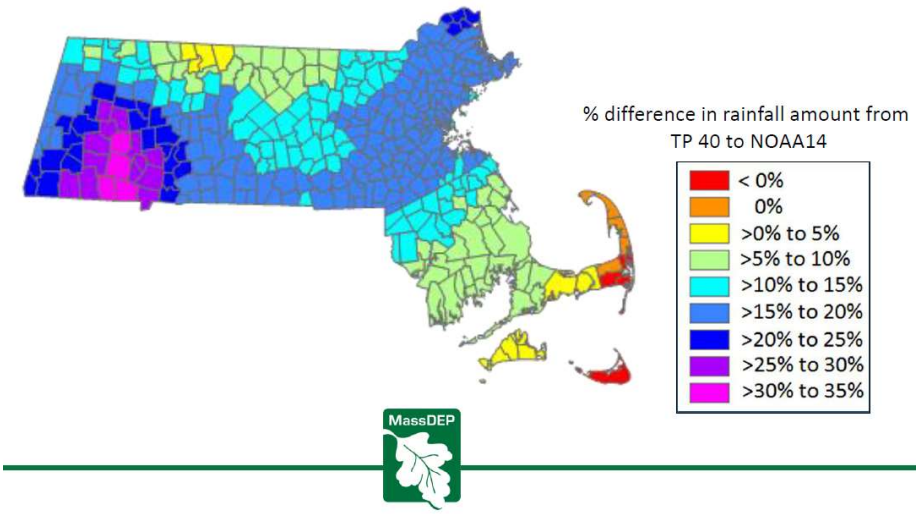
100-Year Storm Model Changes



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Top Natural Hazards in Tolland

- Severe Winter Storms / Nor'easters
- Severe Thunderstorms / Wind / Tornadoes
- Flooding
- Wildfires / Brushfires

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Changing Risk of Top Natural Hazards

Severe Winter Storms / Nor'easters	More winter precipitation is occurring as rainfall and freezing
Severe Thunderstorms / Wind / Tornadoes	Rainfall patterns are changing to less frequent but more intense rainfall events
Flooding	Potentially undersized stormwater and stream crossings relative to future large storm events
Wildfires / Brushfires	Longer periods between rainfall events and higher temperatures increase risk

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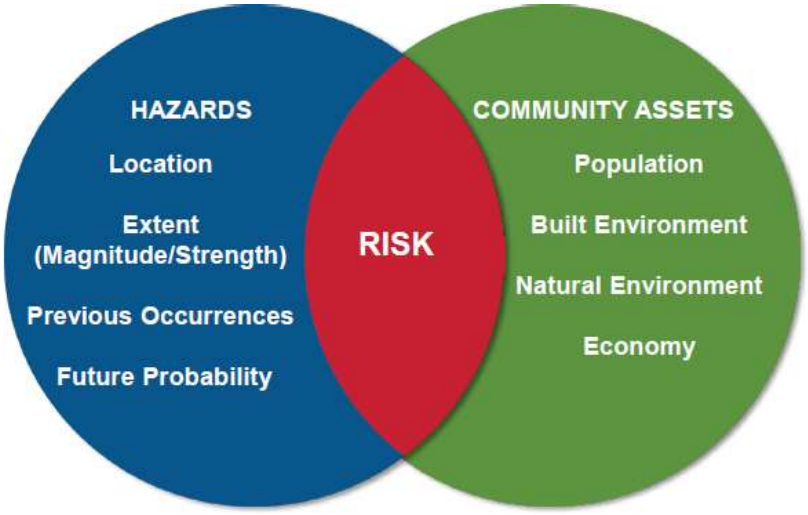
Community Risk from Hazards



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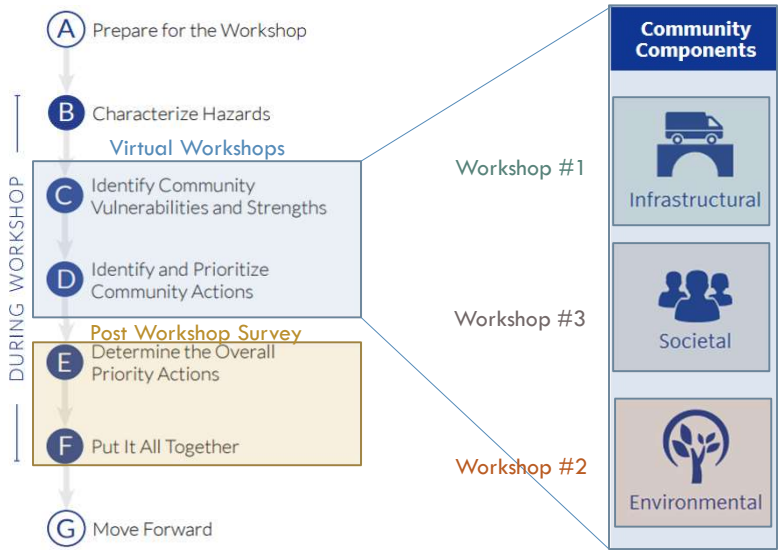
So, What Now?



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What Are Community Components?

- Infrastructure

- Society

- Environment

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Environmental Assets

- What natural resources are important to your community?
- What benefits do these natural resources provide?
  - Storm buffering
  - Fire breaks
  - Erosion control
  - Water quality improvement
  - Slope stabilization
  - Recreation

- Which natural resources are exposed to current and future hazards?
- What have been the effects of hazards on these natural resources?
- Where are the high-risk areas and what vulnerabilities exist for the environment?

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Group Exercise

Use risk matrix to identify environmental asset strengths and weaknesses in the Town of Tolland

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Mitigation Actions - Considerations

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MVP Action Grant Project Types

Planning, Assessments, Capacity Building, and Regulatory Updates

Design and Permitting

Construction and On-the-Ground Implementation

Note: Demonstrate necessary permits & permissions have been secured

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Mitigation Actions – Nature-Based Solutions

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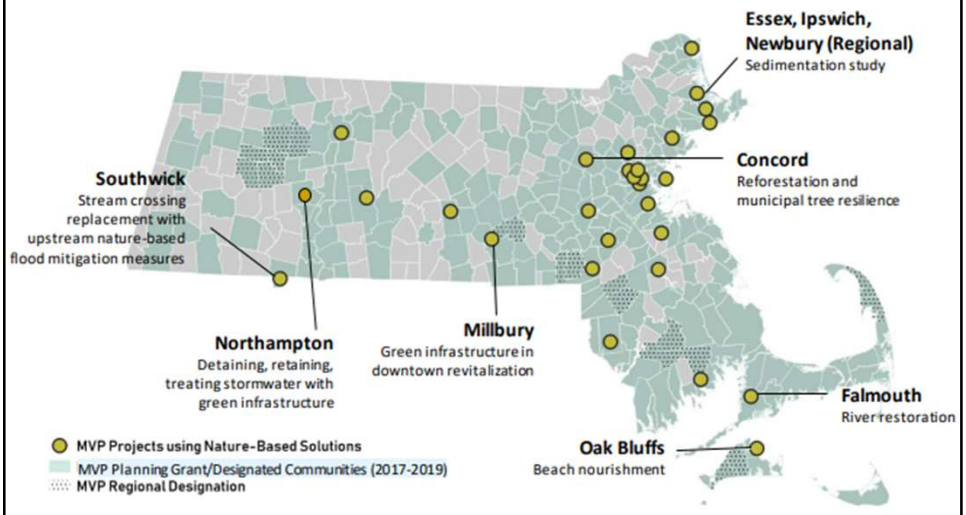
Mitigation Actions – Nature-Based Solutions



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Projects That Are Not MVP Competitive

- Diesel generators
- Tree removal
- FEMA HMPs
- 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

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Mitigation Actions - Environmental Project Examples

- Protect/manage lands located in flood zones
- Install green infrastructure to manage stormwater
- Stabilize vulnerable slopes with native vegetation
- Develop forest management plan that diversifies the age structure of forests in Town
- Coordinate with State Park regarding evacuation procedures

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Group Exercise

Use risk matrix to identify mitigation strategies to address environmental asset strengths and weaknesses in the Town of Tolland

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Next Steps

Continue to reach out to stakeholders

Workshop #3, Wednesday April 13th, 7:00-9:00 PM

Post-workshop mitigation action prioritization survey

Public listening session in May / June timeframe

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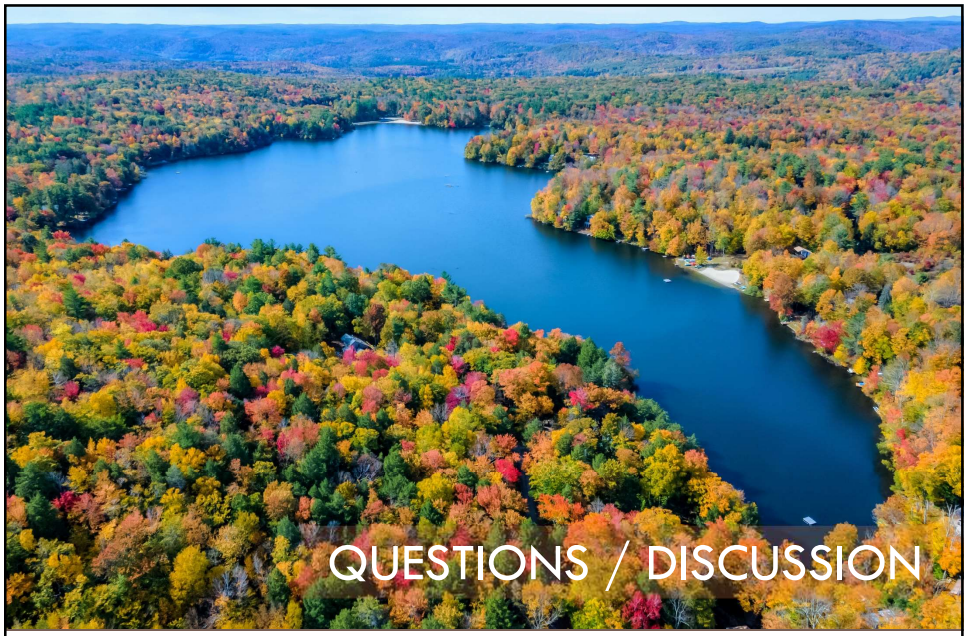

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etully@pvpc.org/ (802) 829-0341

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