# Help Dunstable be more resilient to extreme weather events.

Attend a public meeting to learn what the Town is doing to improve its planning and response to winter storms, extreme heat, drought, and many other natural hazards. The public meeting will be held at the Town Hall on November 7<sup>th</sup> at 5 pm.





RSVP at tinyurl.com/DunstablePublicMeeting

#### TOWN OF DUNSTABLE 511 Main Street Dunstable, MA 01827



NOTICE OF A PUBLIC MEETING POSTED IN ACCORDANCE WITH THE PROVISIONS OF MGL 30A \$18-25

BOARD/COMMITTEE/COMMISSION: Board of Selectmen

SUBMITTED TO TOWN CLERK: November 2, 2023 11:00 am

MEETING DATE: Tuesday, November 7, 2023

TIME: 5:00 pm

LOCATION: Dunstable Town Hall – 511 Main Street

Topics the Chair Reasonably Anticipates will or could be Discussed:

Note: All topic placement & times are estimated and may vary tremendously from projections

#### SCHEDULED AGENDA ITEMS

<i>1</i> .	Call to Order
2.	Public Forum
3.	350th Anniversary Committee Recognition
4.	Appointment of Robert Rafferty to the Advisory Board and Alan Chase to the Conservation Commission*
<i>5</i> .	MVP Update and Public Comments
<i>6</i> .	Discussion: Withdrawal from or modification of Groton Dunstable Regional School District Agreement
<i>7</i> .	November Special Town Meeting Warrant and Resident Question and Answer Period*
<i>8</i> .	Special Town Election - Early Voting*
9.	Town Administrator Report
<i>10</i> .	Adjourn
•	

#### \*Votes likely to be taken

(Note: This listing of matters reflects those reasonably anticipated by the chair which may be discussed at the meeting. Not all items listed may in fact be discussed and other items not listed may also be brought up for discussion to the extent permitted by law.)

You can watch Board of Selectmen meetings at the following link: https://www.youtube.com/@townofdunstable3179/



# **PUBLIC MEETING**

HAZARD MITIGATION PLAN 2023 UPDATE & MVP COMMUNITY RESILIENCE BUILDING PROCESS

Dunstable, Massachusetts

November 8, 2023

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#### **WELCOME & INTRODUCTIONS**



**David Langlais, PE**Town Engineer
Hoyle Tanner



Janet Moonan, PE Project Technical Lead Weston & Sampson

#### **Dunstable's MVP/HMP Core Team:**

**Jason Silva**Town Administrator

Bridget Baley Health Agent

Nichole Davis Hoyle Tanner

Maria Amodei Board of Health **Leah Basbanes** 

Selectboard & Con Com

**William Farrell**Dunstable Fire Dept

**Dave Tulley**Highway Department

John O'Brien
Water Commission

**Erik Hoar** Police Chief

Jon Crandall

Emergency Management Director

**Mike Martin**Road Commission
Chair

Thank you to the Executive Office of Energy and Environmental Affairs for the MVP Planning Grant Funding for this work

Weston & Sampson



MVP Regional Coordinator

**Michelle Rowden** 

# MVP + HMP UPDATE UNDERWAY

# **Town of Dunstable Undertaking:**

✓ Community Resilience Building (CRB) process through EEA's Municipal Vulnerability Preparedness (MVP) Planning Grant to obtain Community Designation



 Preparation of a natural Hazard Mitigation Plan (HMP) compliant with the Federal Emergency Management Agency (FEMA)

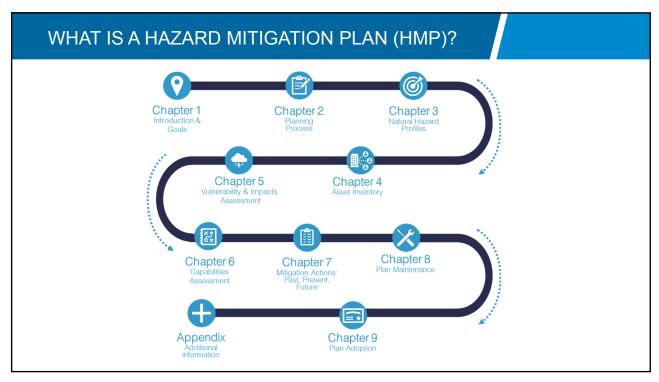


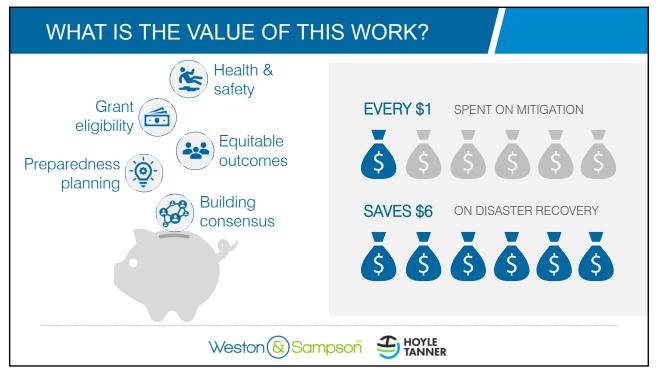


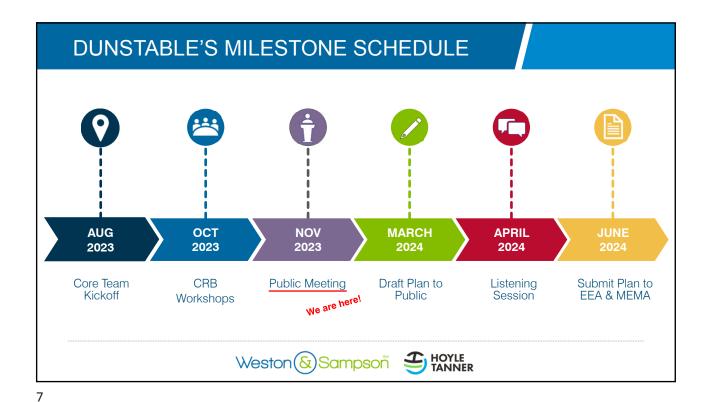


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# WHAT IS MUNICIPAL VULNERABILITY PREPAREDNESS (MVP)? Improved resilience and preparedness Collaboration with stakeholders Increased education, planning, and implementation Funding for resilience-related actions Funding for resilience fractions MP region boundaries Climate Grant Viewer Weston © Sampson Weston © Sampson Weston Exampson Weston Exampson







Before we move on...

We want your input

Help Dunstable be more resilient to extreme weather events. Take this survey to share your experiences and help the Town improve its planning and response to winter storms, extreme heat, drought, and many other natural hazards.

tinyurl.com/DunstableHMPsurvey

Weston Sampson Poyle Tanner

#### WHY WE'RE HERE

#### Weather projections:

#### Changes in precipitation

- 12-42% more winter precipitation by 2070.
- EJ and Priority Populations have a 57% higher risk of flood damage than the rest of the Commonwealth.
- Annual economic flood damage increase by \$9.3 million by 2030 in MA.

#### Severe Weather

- Precipitation amounts from heaviest storms increased by 55% since 1958.
- Lightning was responsible for \$20.4 million in damage between 2002 and 2022.

Source: ResilientMass Plan (2023)

## Rising temperatures

- 23-29 high heat days expected by 2050.
- Annual average temperature increase of 5.9 to 7.9 F by 2050.
- Extreme temps will increase annual transportation infrastructure maintenance cost by over \$140 million

#### Regional changes

- Increase in frequency and magnitude of hurricanes and nor'easters
- More risk to experiencing tornados.
- Increased fire potential.

Weston(&)Sampson



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# NATURAL HAZARDS IMPACTING DUNSTABLE



/ TROPICAL **STORMS** 



HURRICANES FLOODING FROM **PRECIPITATION** 



**EXTREME TEMPERATURES** 



SEVERE WINTER WEATHER/ NOR'EASTERS



**LANDSLIDES** 



**CHANGES IN** GROUNDWATER



DROUGHT



WILDFIRE / **BRUSHFIRE** 



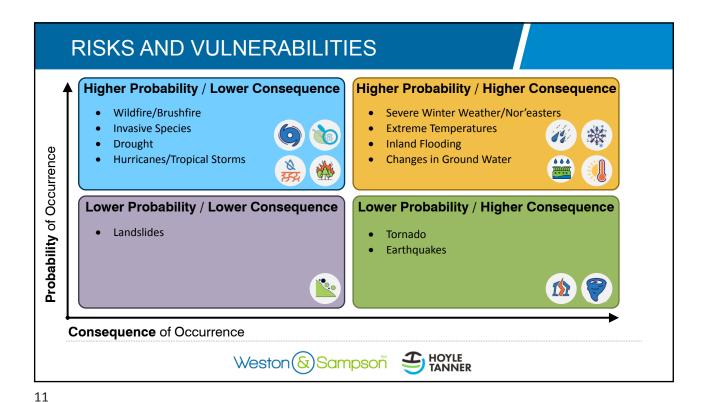
**EARTHQUAKES** 

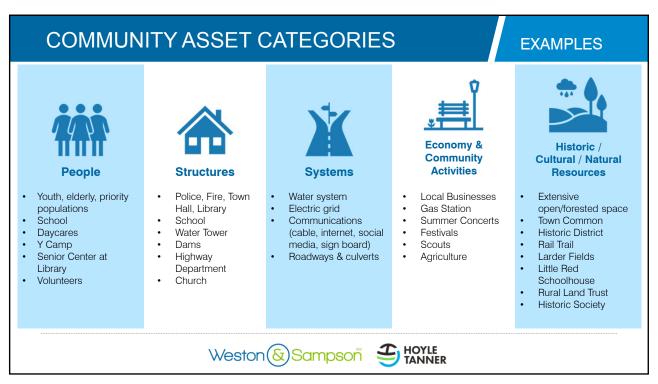


**TORNADOES** 



**INVASIVE SPECIES** 







# DUNSTABLE'S DRAFT MITIGATION ACTIONS

#### **Top Actions**

- ✓ Fire Department Station/ Lot Resilience
- Road infrastructure evaluation and management plan
- ✓ Woodwards Mill Pond Dam Repairs
- Communication plan for priority populations









# MITIGATION ACTIONS FROM WORKSHOPS

# **Top Actions**

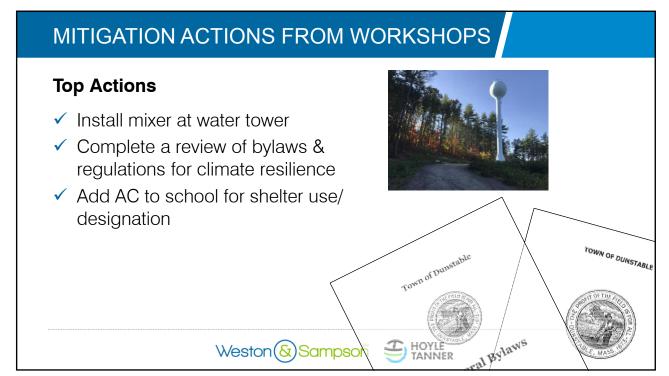
- ✓ Create cooling areas (e.g., natural approaches & structures) at Larter Field, Town Common, School parking lot
- ✓ Culverts & Dams: inventory & evaluation and flood study regarding prevention
- ✓ Education & Outreach for:
  - Invasives
  - Wells
  - Trees







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# MITIGATION ACTIONS FROM WORKSHOPS

#### **Other Actions**

- Implement Building Envelop Actions at Union School
- Improve access roads to open / wooded spaces for fire management and emergency response
- Mitigate potential impacts of flooding and other natural hazards at new development projects
- ✓ Flood study for DPW
- Develop policies for use for Library/Council on Aging









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## MITIGATION ACTIONS FROM WORKSHOPS

- Provide access to drinking water from town on public properties (e.g., water fountains, fill stations)
- Improve and create affordable senior housing options
- Adapt community activities to seasons/weather (time to avoid natural hazards)
- Develop procedure and obtain equipment for fire department to pump basements
- ✓ Gas / power / energy resilience study
- ✓ Regional Coordination re Cow Pond Dam
- ✓ Police Department resilience study
- ✓ Hydrant inventory & code identification
- ✓ In-person emergency communications plan
- Encourage sign ups for outreach systems, priority populations in particular
- ✓ Downtown flooding study

- ✓ Generators for heating/cooling at critical buildings
- ✓ Beaver management planning
- Ongoing maintenance of trees surrounding critical facilities, pre storm event
- ✓ Resilient Bandstand at Town Common









