

# Act 121: The Flood Safety Act

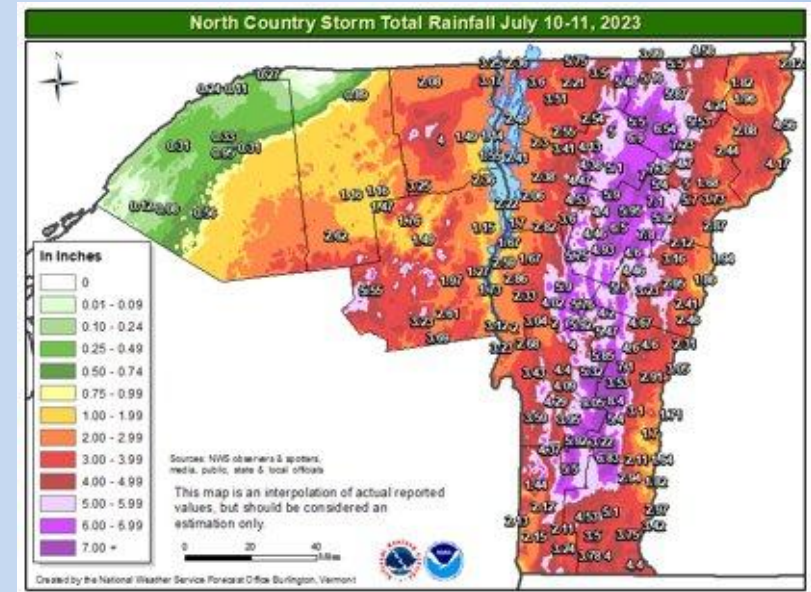


In support of



# Flood Safety Act (Act 121)

- Passed in 2024 after the historic flooding of 2023
- Watershed-wide approach makes sure all towns upstream or downstream have the same protections, making all communities safer





# Flood Safety Act (Act 121) aims to mitigate flooding in multiple ways



Establishes  
state regulation  
of proposed  
development in  
river corridors



Creates statewide  
minimum standard  
for development  
in NFIP-enrolled  
towns



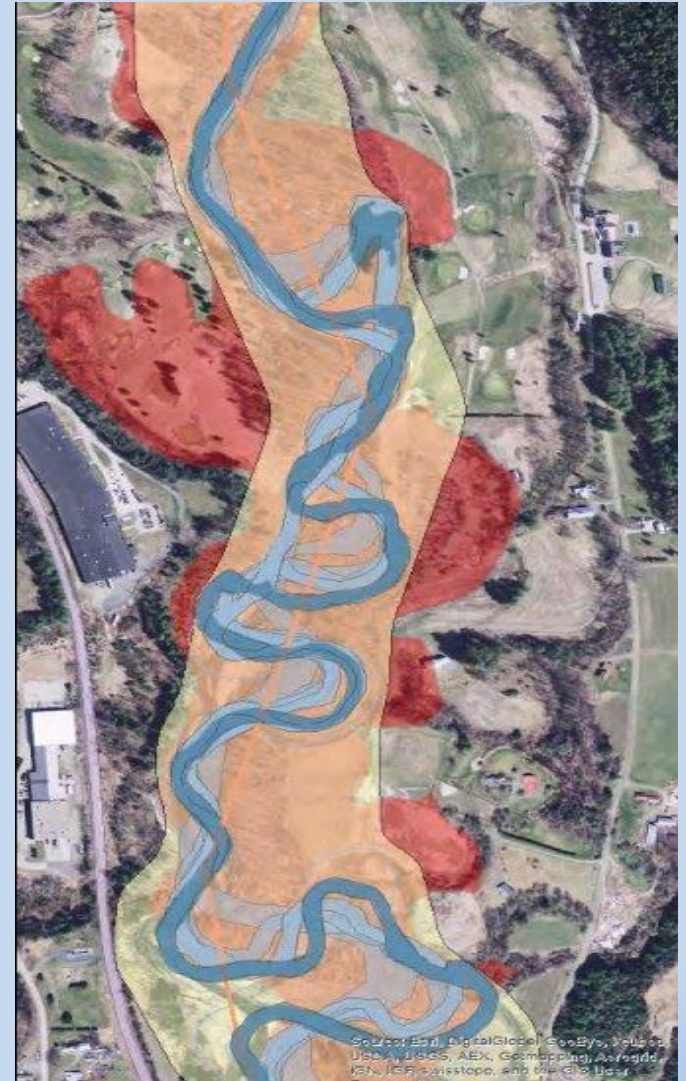
Strengthens dam  
safety  
through increased  
oversight  
and maintenance  
requirements



Increases  
floodwater  
storage in  
wetlands by  
establishing a “net  
gain” rule

# River Corridors Timeline

- Conduct 2-yr. education and outreach effort and collect input from the public (Jan. 1, 2025 – Jan. 1, 2027)
- Update River Corridor map to ID areas in existing settlements that will not increase fluvial erosion hazards (Jan. 1, 2026)
- Submit a report to legislature summarizing public input (Jan. 15, 2027)
- Adopt rules to limit new development in the mapped river corridors (July 1, 2027)
- Begin administration of the rules (Jan. 1, 2028)

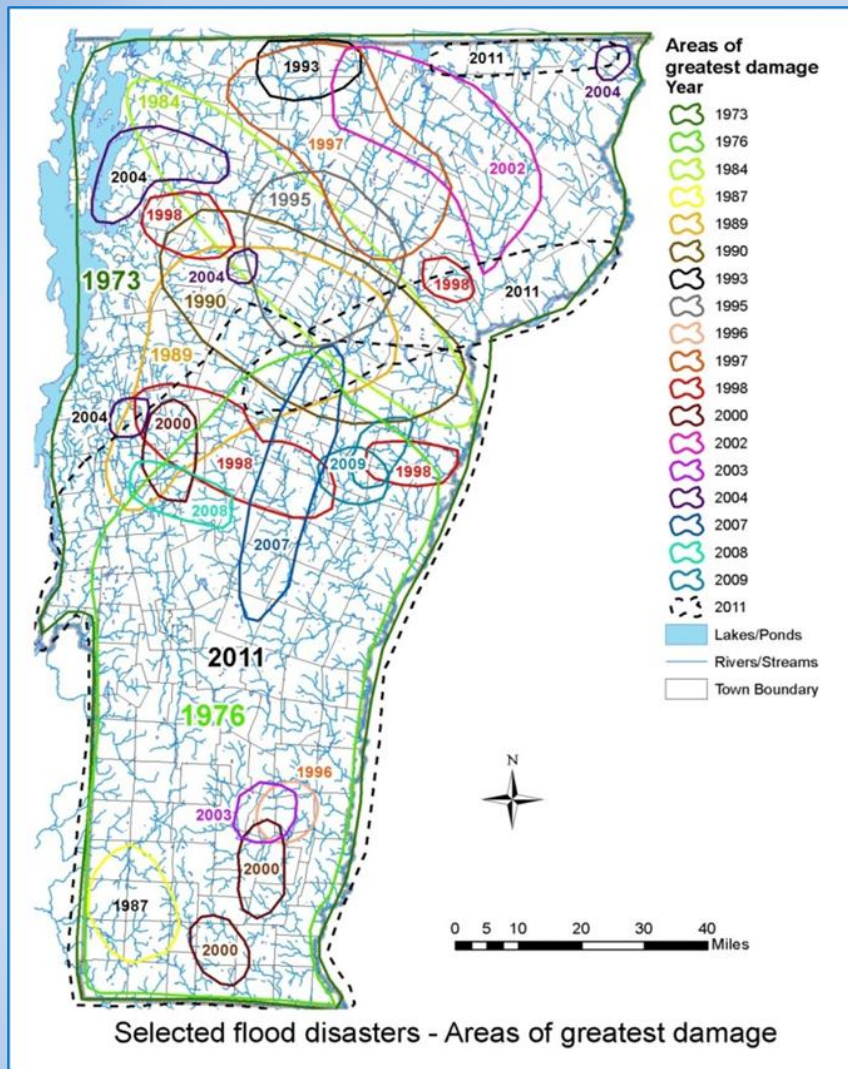


# A History of Vermont's Largest Floods

All New England Flood:	1869	Unknown
The Great Vermont Flood:	1927	\$450M
The Great New England Hurricane:	1938	\$482M
Floods of 1973:	1973	\$326M
Tropical Storm Irene:	2011	\$750M
July 2023 Flooding:	2023	\$620M

Source: National Weather Service Cost figures adjusted for 2012 dollars





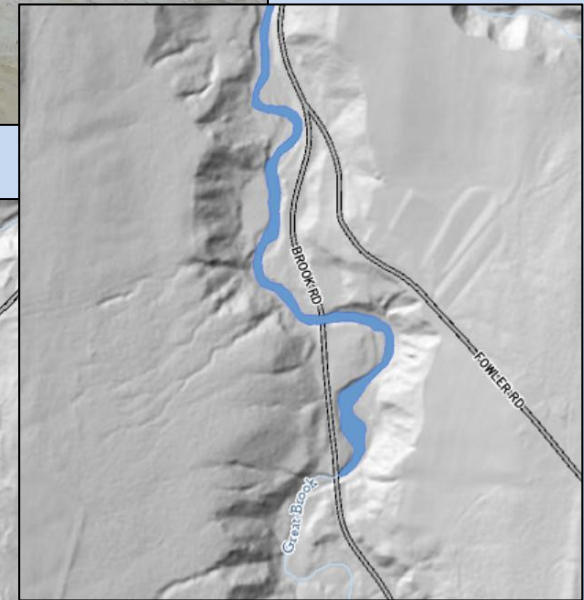
## Frequent Flood Disasters

**1973 – 2011: 19 regional scale floods (1 every 2 years)**

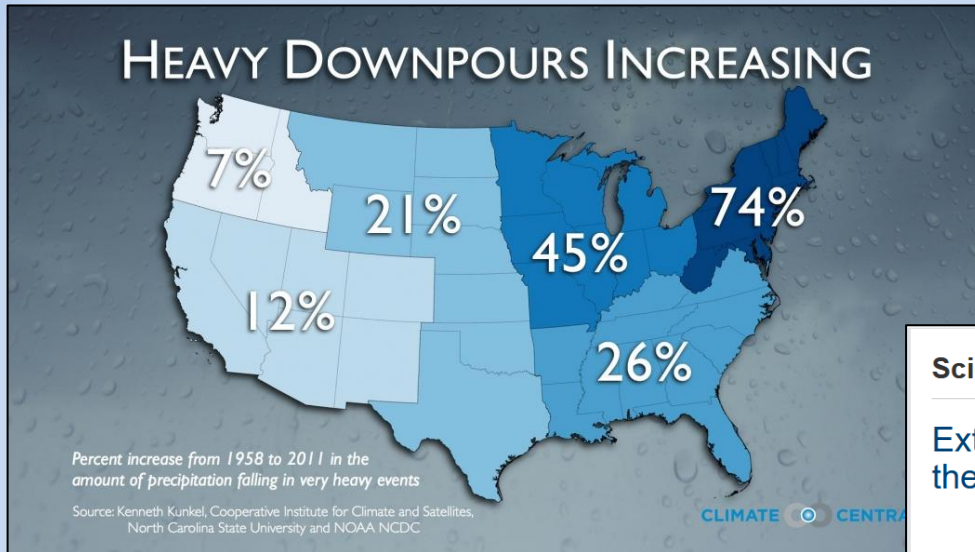
**Flooding is the most common and costly recurring hazard in Vermont**

**\$30M: Vermont's average annual public flood damage costs.** (Source: TNC analysis of FEMA public flood damage cost data for 2008-2021)

# Flood Risk Factors: Topography



# Flood Risk Factors: Precipitation Trends



## Science News

from research organizations

### Extreme precipitation in Northeast US to increase 52% by the end of the century

Date: May 30, 2023

Source: Dartmouth College

Summary: With a warmer climate creating more humid conditions in the Northeast, extreme precipitation events -- defined as about 1.5 or more inches of heavy rainfall or melted snowfall in a day -- are projected to increase in the Northeast by 52% by the end of the century, according to a new study.

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Property damages from flooding in Vermont are calculated to exceed \$5.2 billion over the next 100 years.

-UVM Gund Institute



# Flood Risk Factors: Risky Developments



Photo: Mansfield Heli-flight 2011



# Flooding Damage:

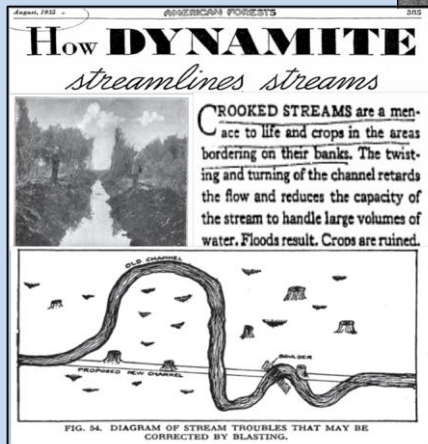


## Inundation vs. Erosion

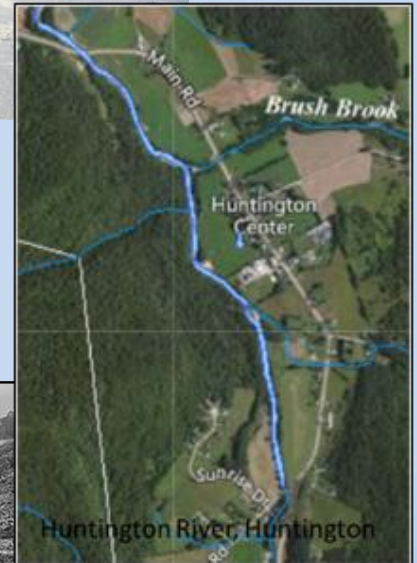
Over 75% of monetary flooding damages are due to fluvial erosion in Vermont  
State Hazard Mitigation Plan



# Controlling Rivers to Mitigate Flood Hazards



Black Creek,  
Fairfield

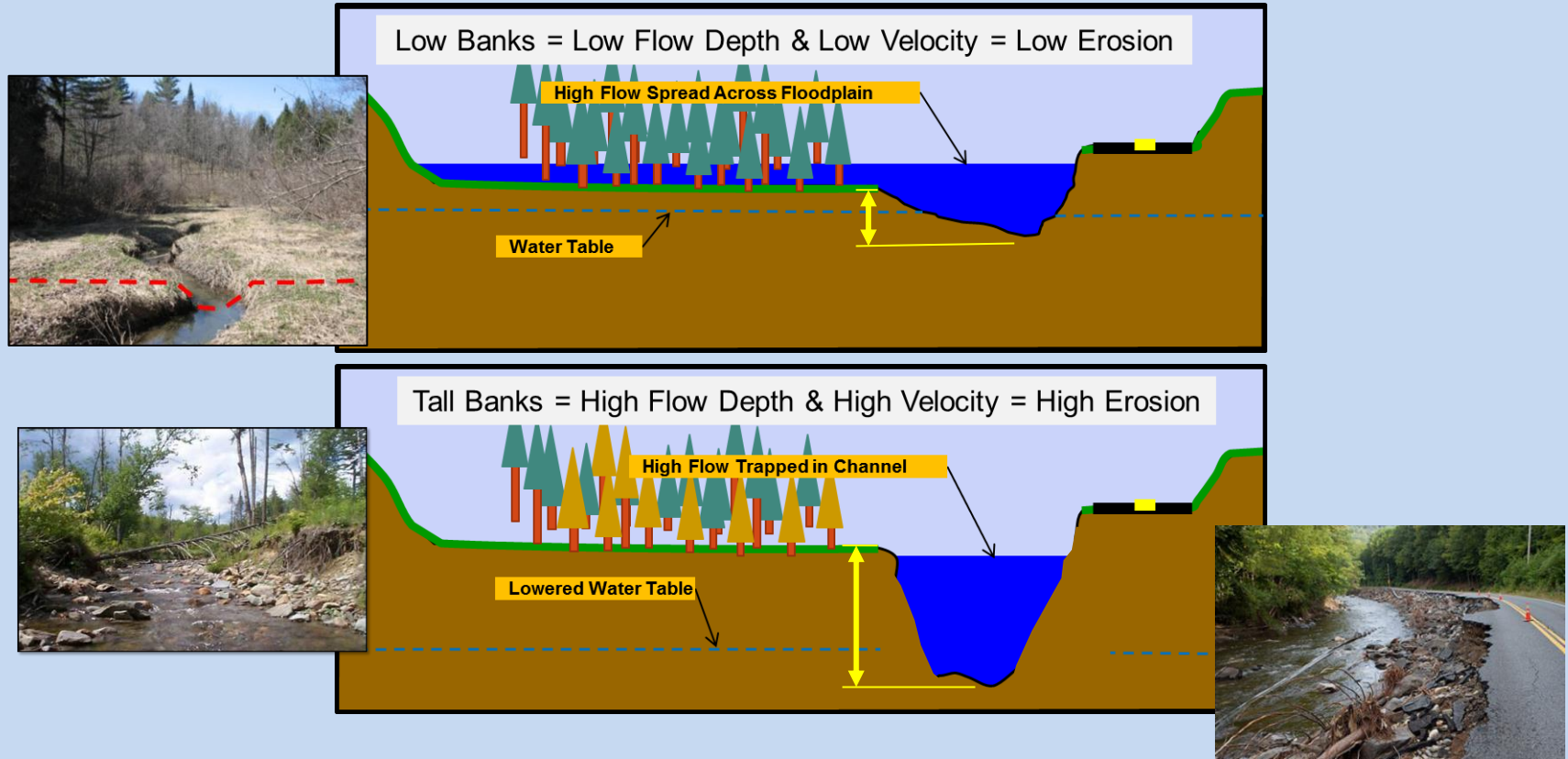


Huntington River, Huntington

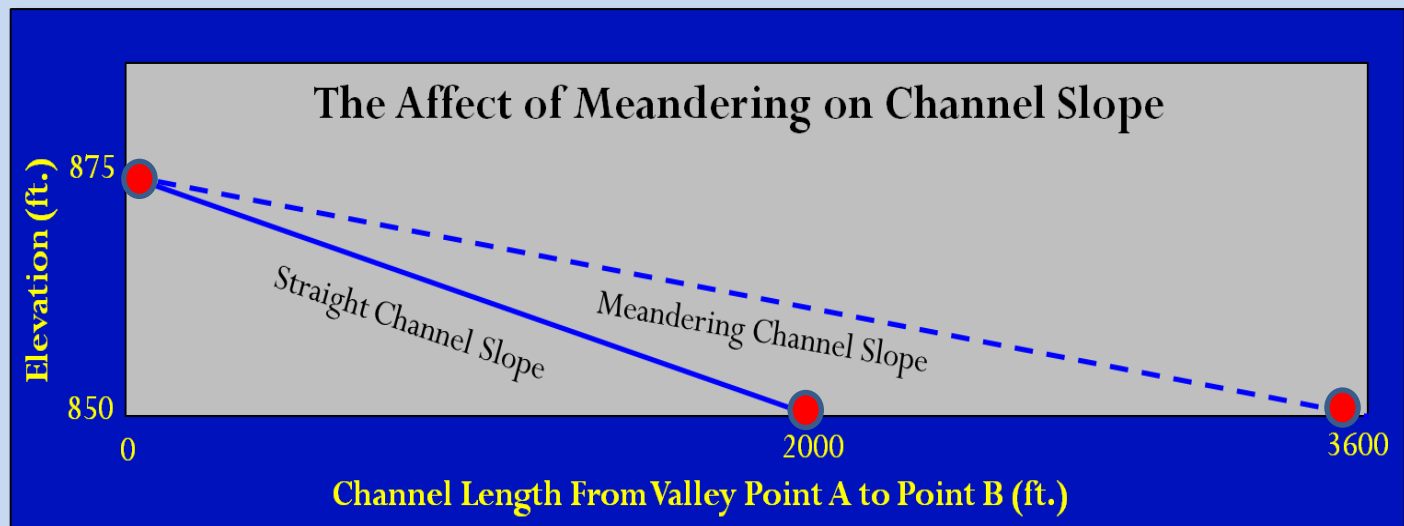
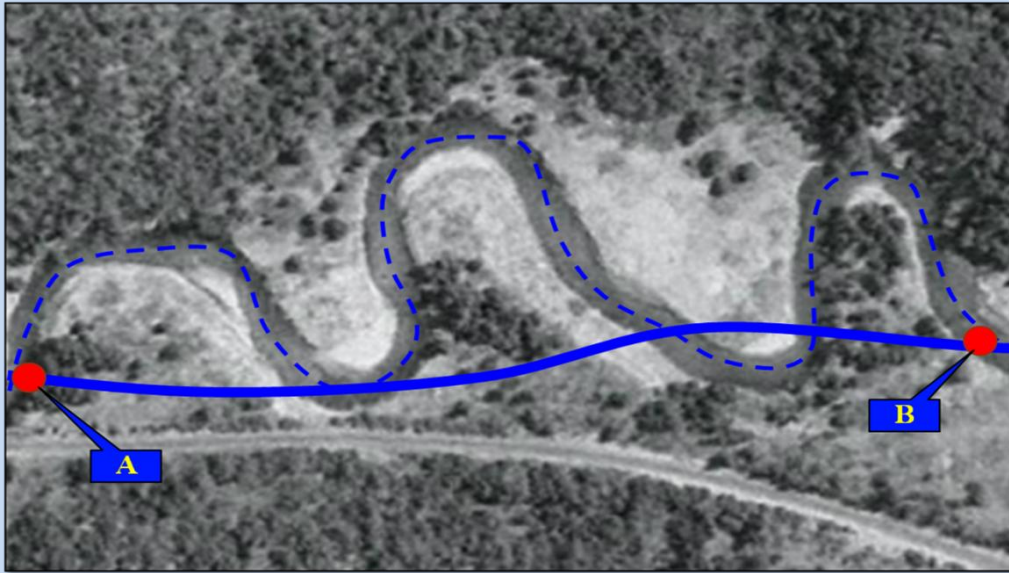




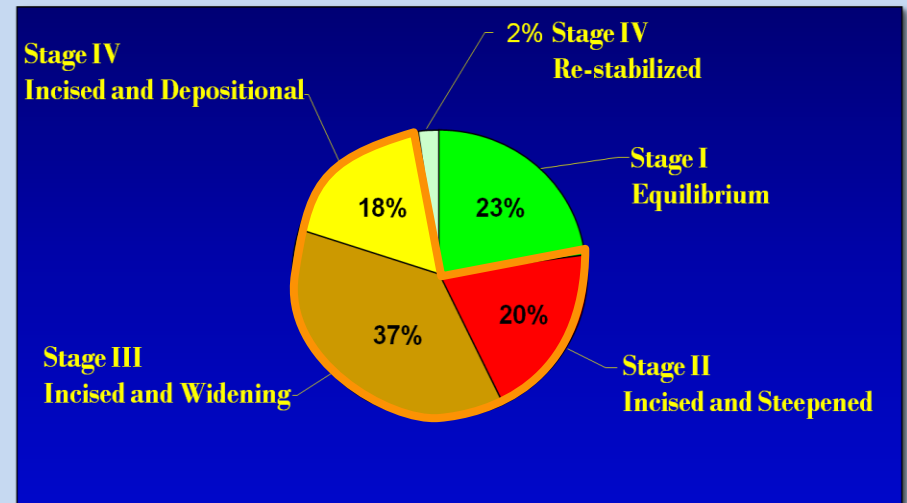
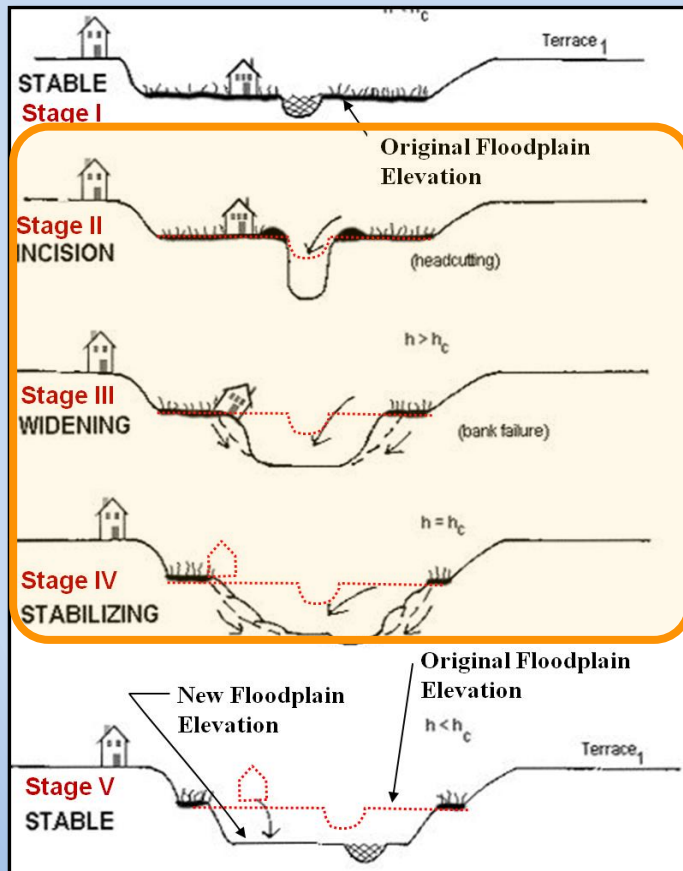
# Channel Dredging and Flow Depth



# Channel Straightening and Slope



# Efforts to Control Rivers have Resulted in Extensive Instability



- 5,000 river miles assessed.
- 75% undergoing channel evolution.





# Vermont NFIP Participation

1/2025

## Legend



National Flood Insurance

Program

274  
Communities



Participating Community

20  
Communities



Not Participating

List of NFIP Participating communities  
available at:

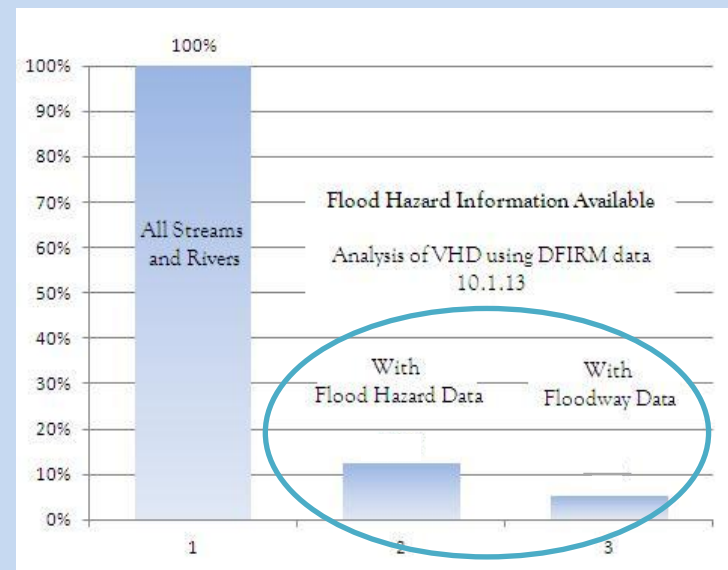
<https://www.fema.gov/cis/VT.html>

Map available from:  
[Flood Ready Vermont Atlas](#)

# Many Vermont flood risks are not identified by the NFIP floodplains



- Many streams have no FEMA-mapped floodplain
- Flash flooding and moving streams are not mapped





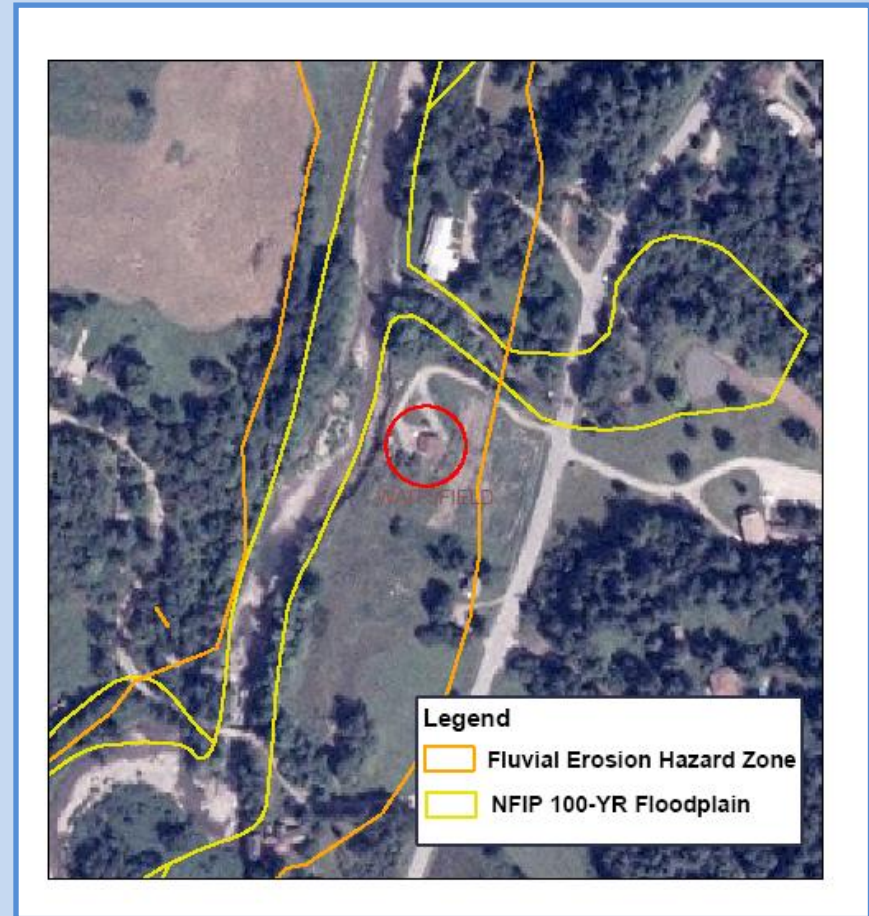
# National Flood Insurance Program Does Not Address Fluvial Erosion Hazards

Not in the NFIP Floodplain



Mad River in Waitsfield, Vermont

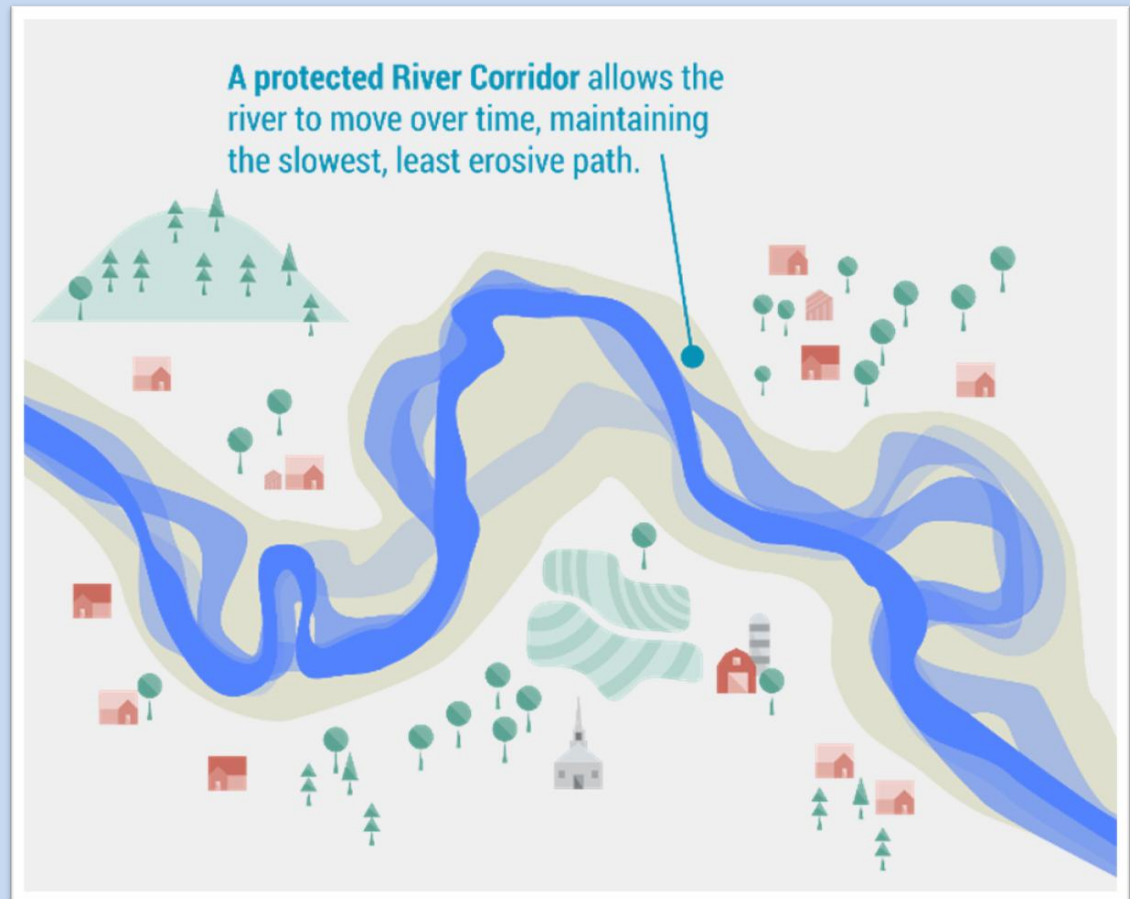
100 feet from NFIP Floodway and 8 feet above the 100yr. flood elevation.



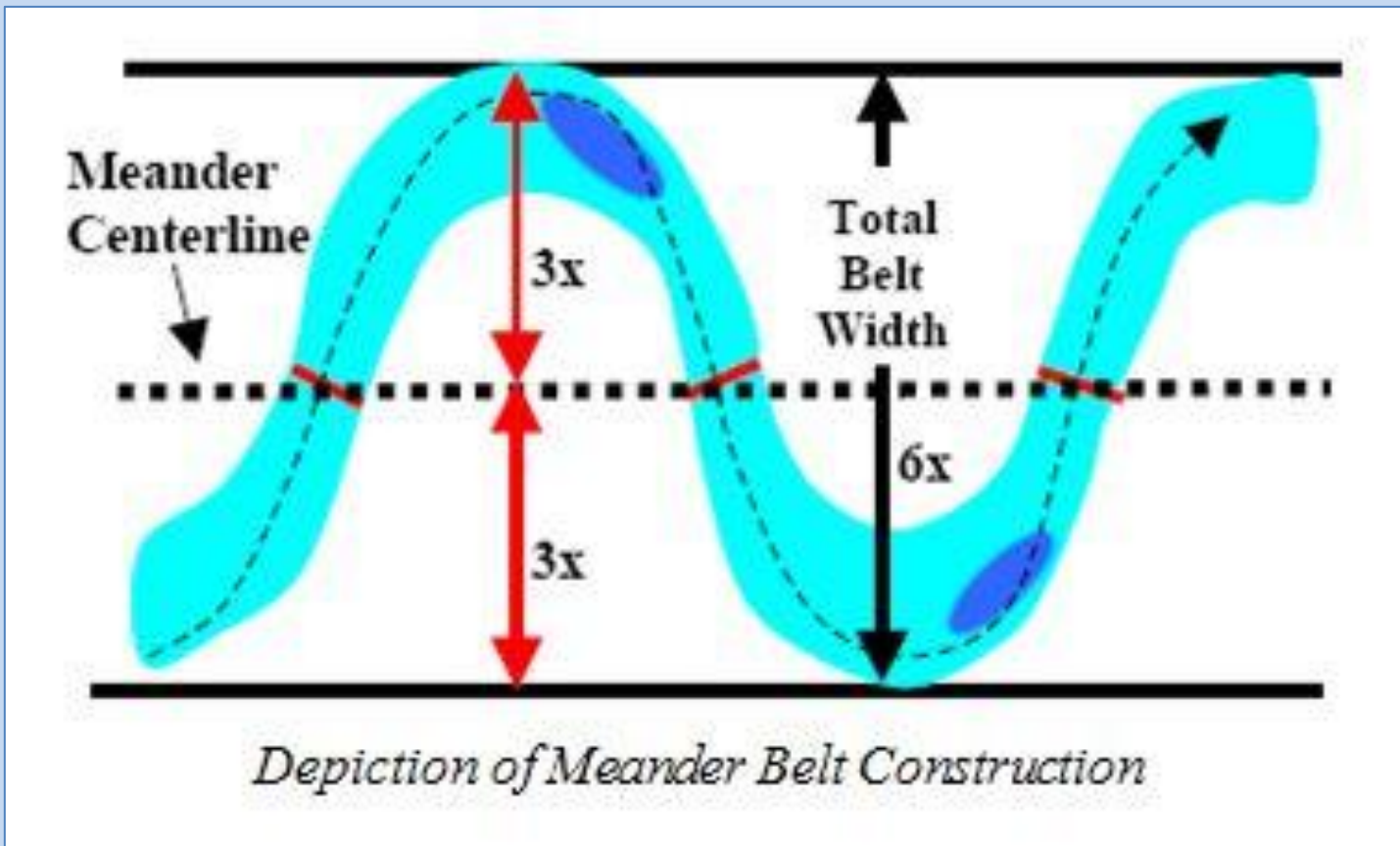


# Mapping River Corridors to Reduce Exposure to Fluvial Erosion hazards

River Corridors:  
the area on either  
side of the river  
where we expect  
the channel to  
adjust over time

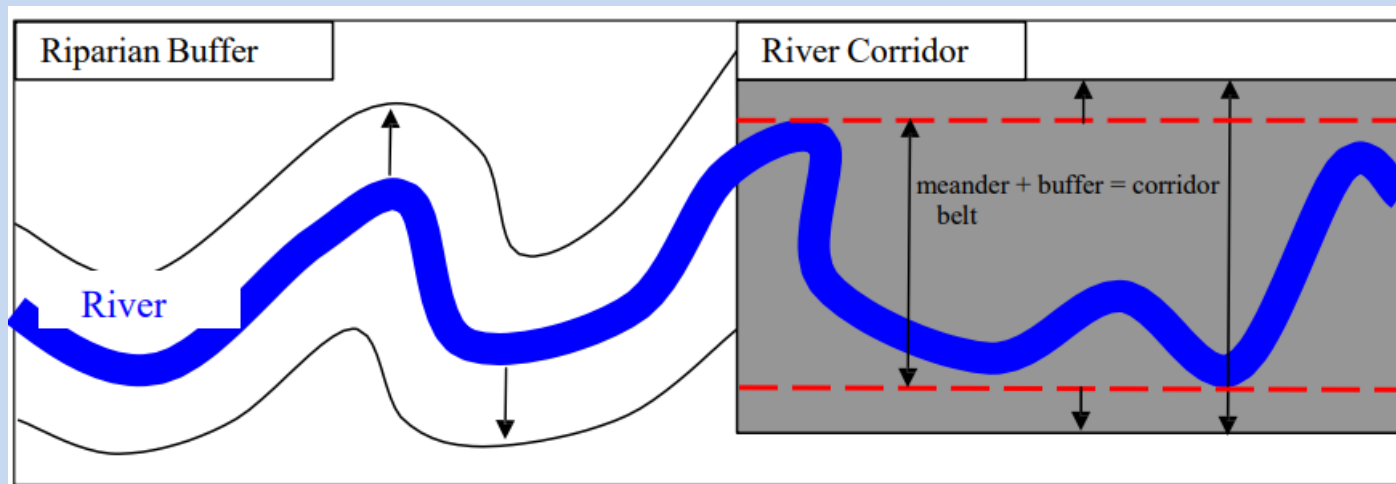


# How River Corridors are Mapped



# A River Corridor is different than a Buffer

- Minimum space needed to maintain the natural, least-erosive slope of the channel.
- Avoid new encroachments to minimize future river conflicts





# Combining Floodplains & River Corridors to Reduce Flood Hazards

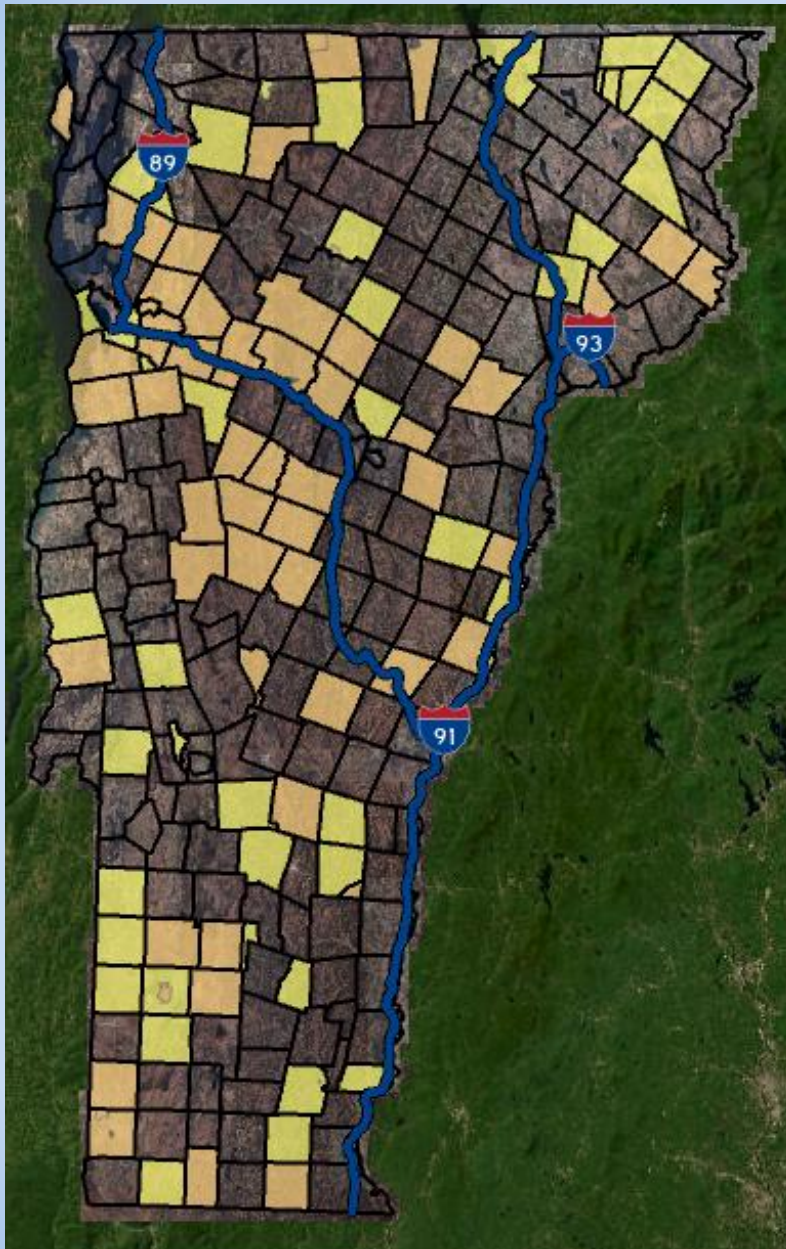
FEMA Flood Hazard Area



ANR River Corridor



# Municipalities with River Corridor Bylaws

1/2025

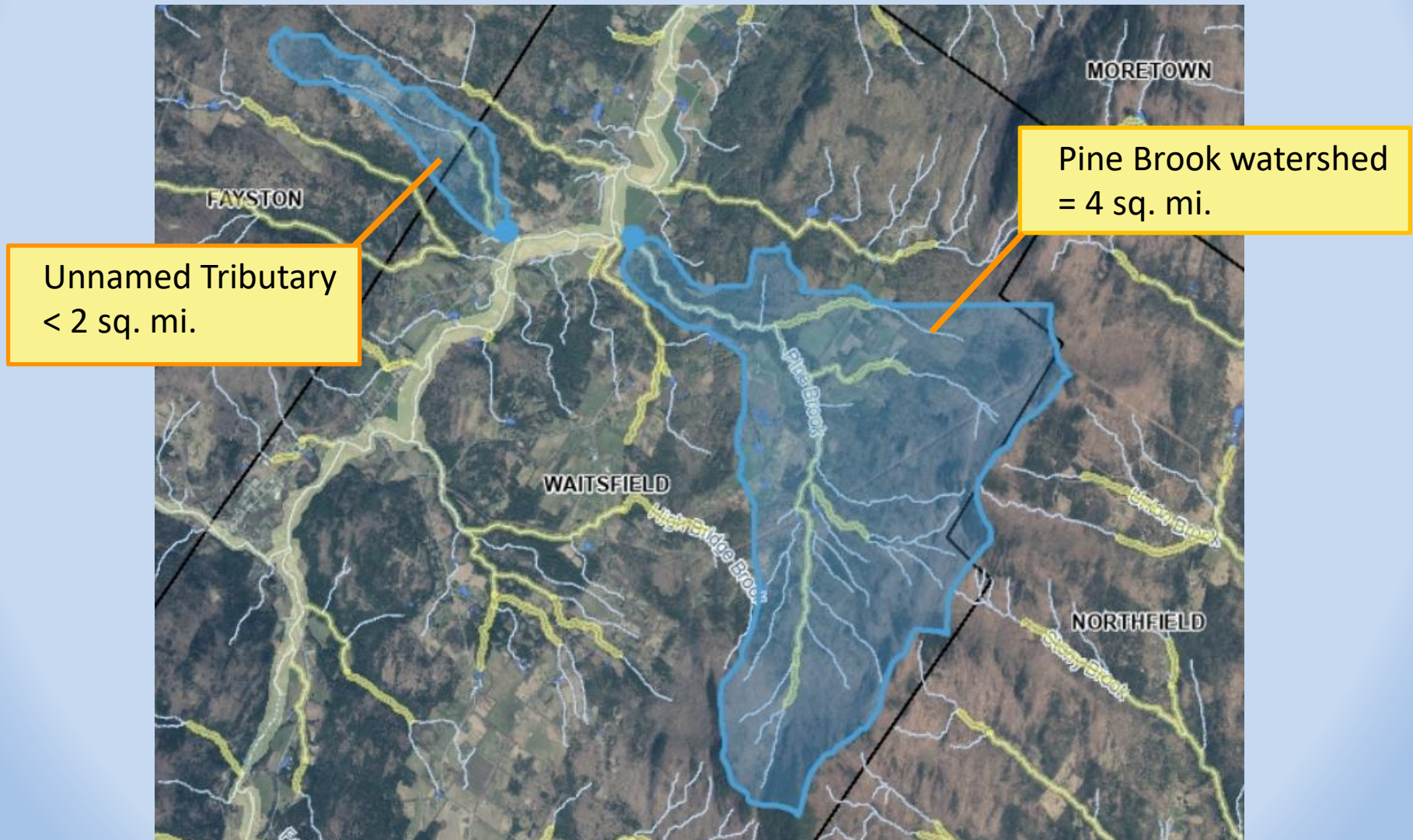


Legend	
—	Flood Ready
—	River Corridor Protection
	River Corridor Protection
	Interim River Corridor Protection

Map available from:  
[Flood Ready Vermont Atlas](#)

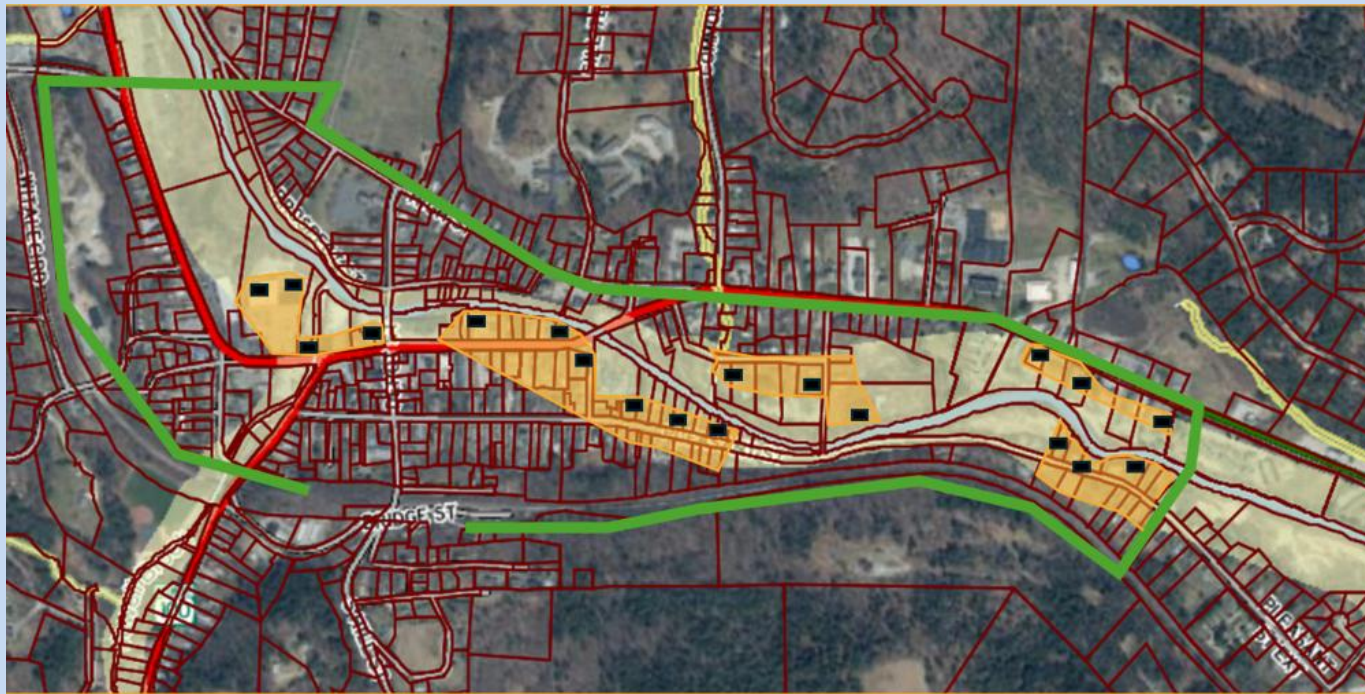


# Act 121 Applies Only to Rivers Draining More Than 2 Square Miles



# River Corridor Infill and Redevelopment Areas

The Flood Safety Act recognizes the need to continue to develop within existing settlement areas, even when those areas are within river corridors.





# Considerations for Municipalities

- All river corridor maps can be found on the ANR atlas or Flood Ready Atlas.
- The act only addresses new development in river corridors. DEC will begin requiring permits for development in river corridors starting in 2028.
- Municipalities may choose to regulate development along smaller streams (less than 2 sq. mil. watersheds).
- The ERAF incentive structure after 2028 is yet to be determined.
- The Act provides for the opportunity to delegate regulation of mapped river corridors to municipalities. The specifics will be determined during the rulemaking process.



# More information about the Flood Safety Act is available on the Flood Ready website

[bit.ly/flood-safety-act](https://bit.ly/flood-safety-act)

- Regularly updated information about the Act
- Frequently asked questions
- Infographics and other resources

## Vermont's Flood Safety Act

### The Flood Safety Act of 2024

After widespread flood damage in 2023, the Flood Safety Act (Act 121) was enacted in 2024 to address Vermont's growing vulnerability to extreme precipitation and flooding. Through a watershed-wide approach, the Flood Safety Act will build statewide flood resilience, protect public safety, and help prevent further damage to homes and infrastructure.

### Reducing Flood Risk and Vulnerability to Flood Damage



Establishes state regulation of proposed development in river corridors



Requires a statewide minimum standard for development in floodplains



Increases floodwater storage in wetlands by establishing a "net gain" rule



Strengthens dam safety through increased oversight and maintenance requirements

**FLOOD READY**



# Submit Questions or Comments to VT DEC

We want to hear from communities and residents statewide.  
Please complete the Flood Safety Act Comment Form:

- <https://bit.ly/fsa-comment>

Questions and comments submitted through this form will go directly to DEC.

You may also reach out to:

Shayne Jaquith, The Nature Conservancy - [Shayne.Jaquith@tnc.org](mailto:Shayne.Jaquith@tnc.org)

Alison Spasyk: Lake Champlain Sea Grant – [Alison.Spasyk@uvm.edu](mailto:Alison.Spasyk@uvm.edu)

