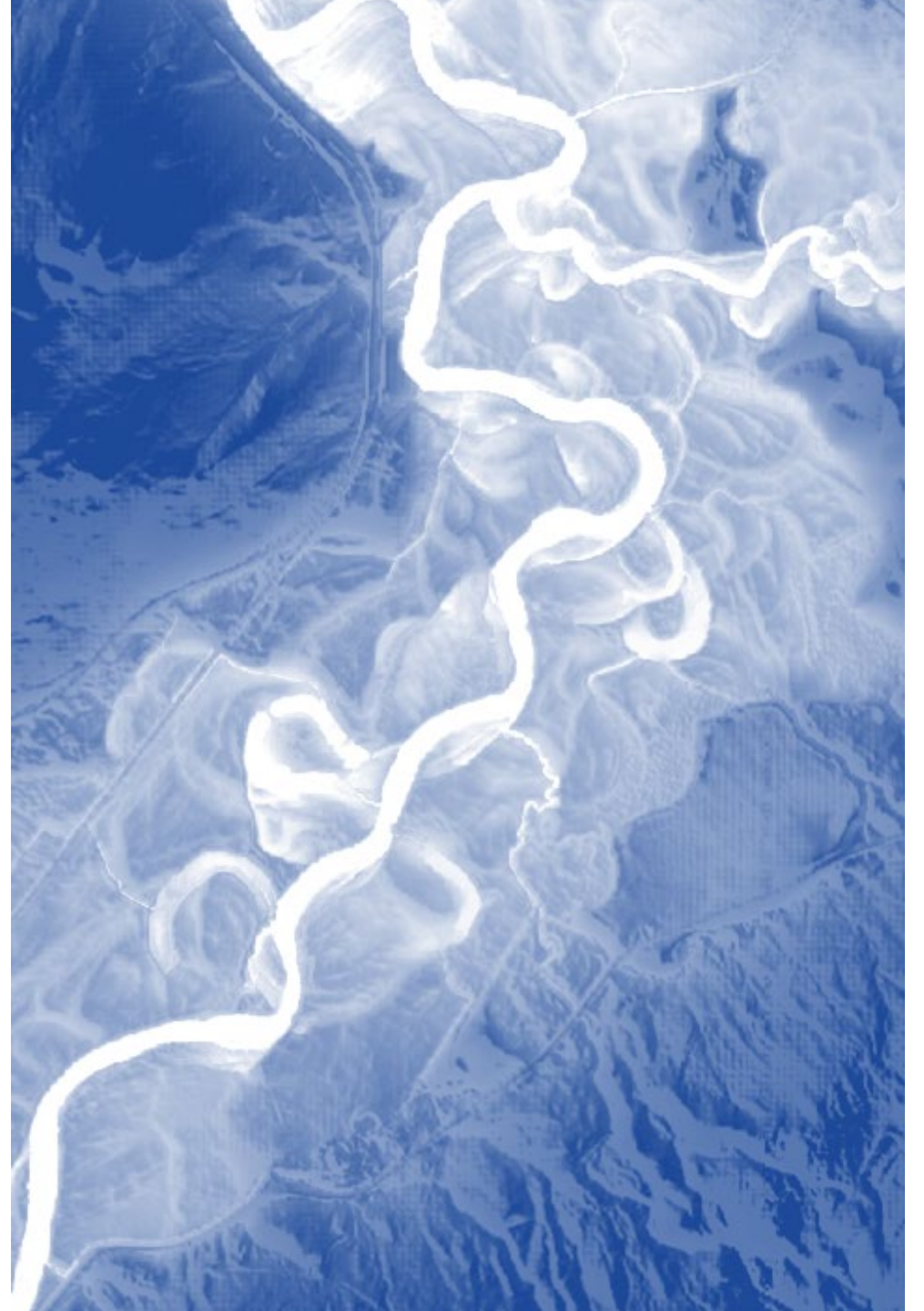




River Corridor Regulation

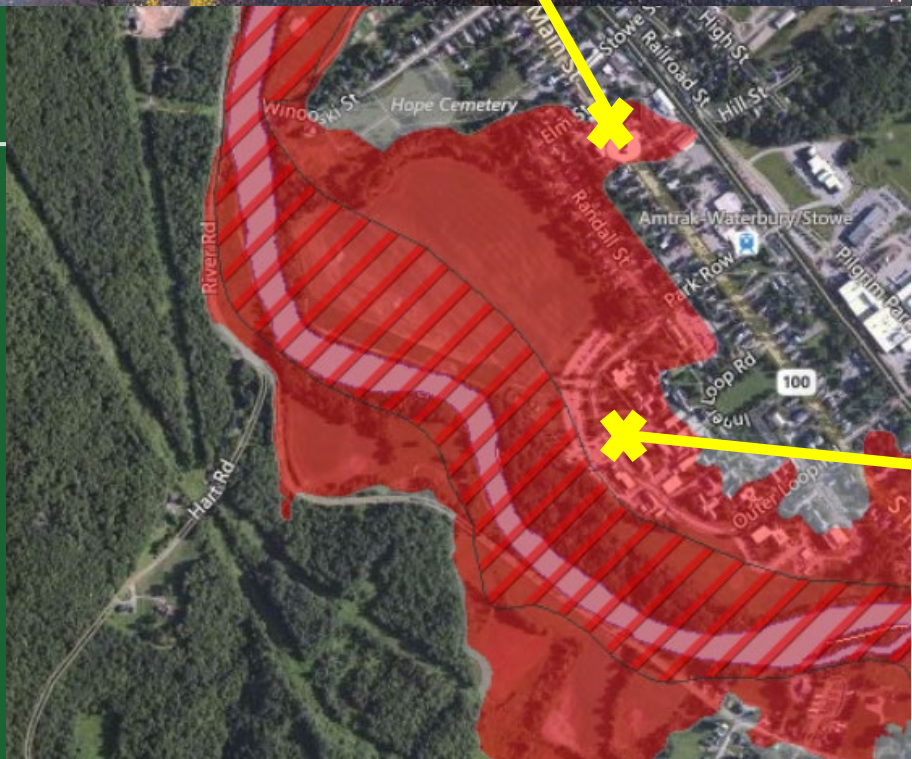
Rob Evans
Rivers Program Manager
VT Department of Environmental Conservation



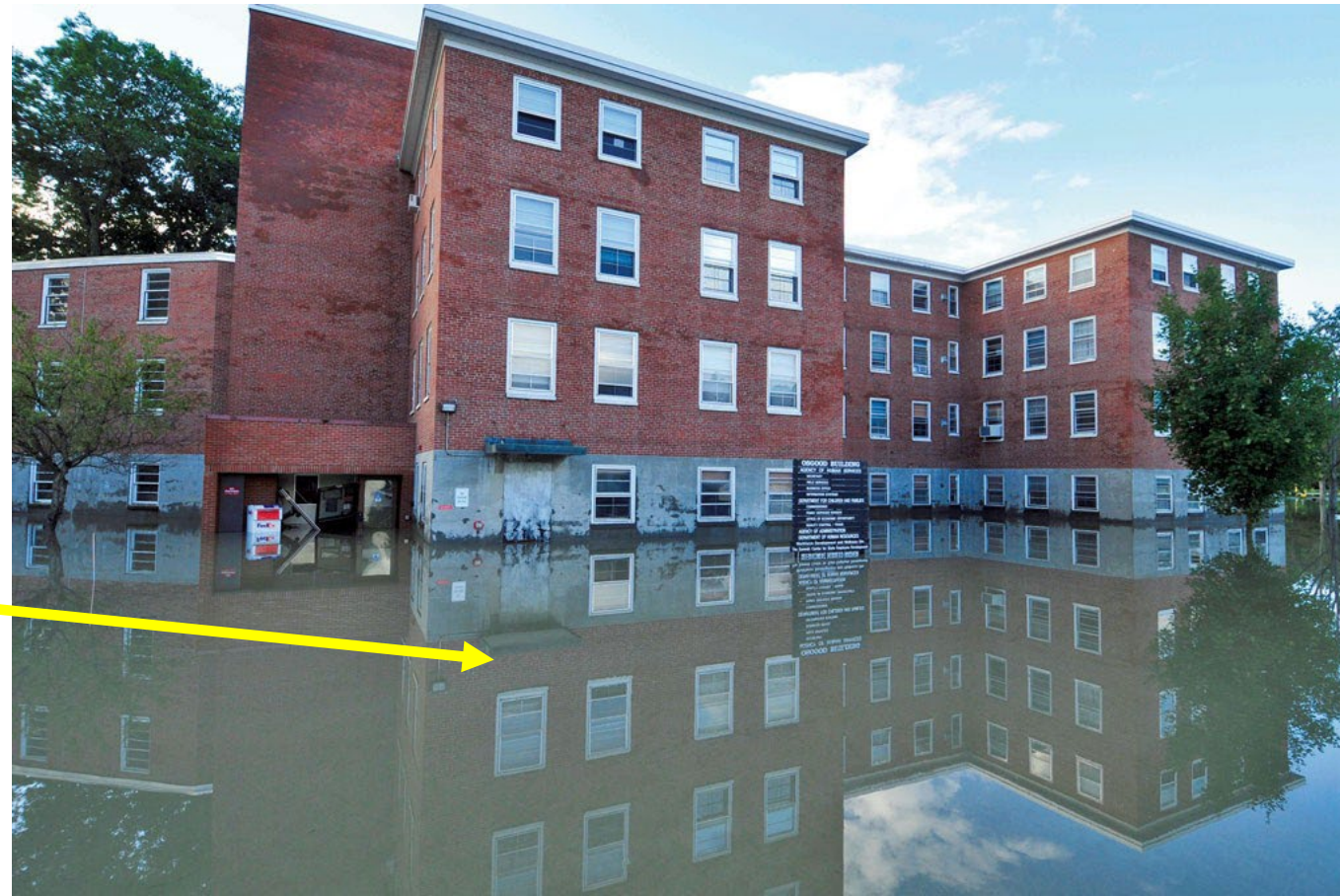


Recap:

1. Flood hazard areas vs. river corridors
2. Current state of river corridor regulation
3. Gaps in regulation



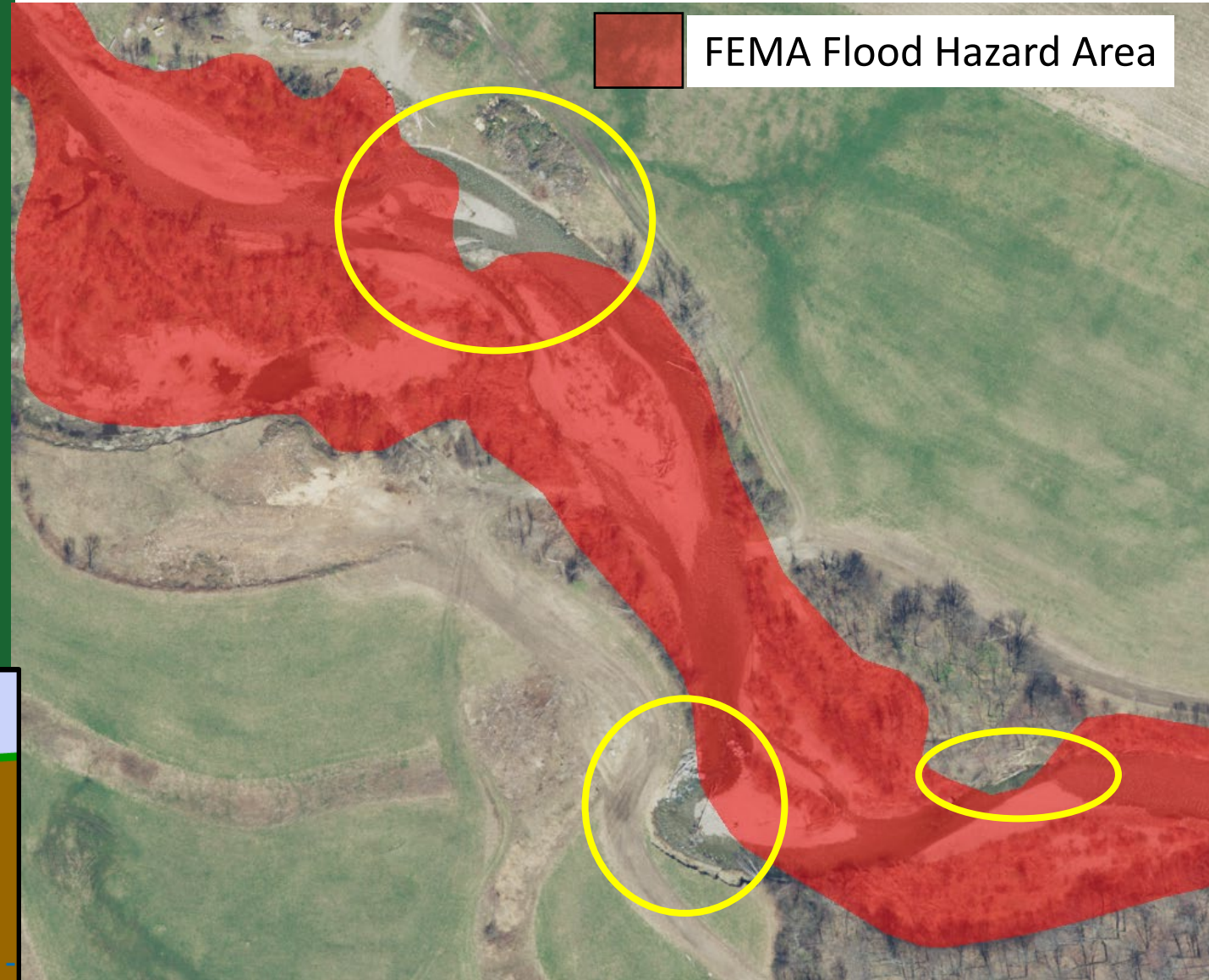
Flood Hazard Areas: Inundation





Inundation Flood Hazard Maps Under- represent flood risk

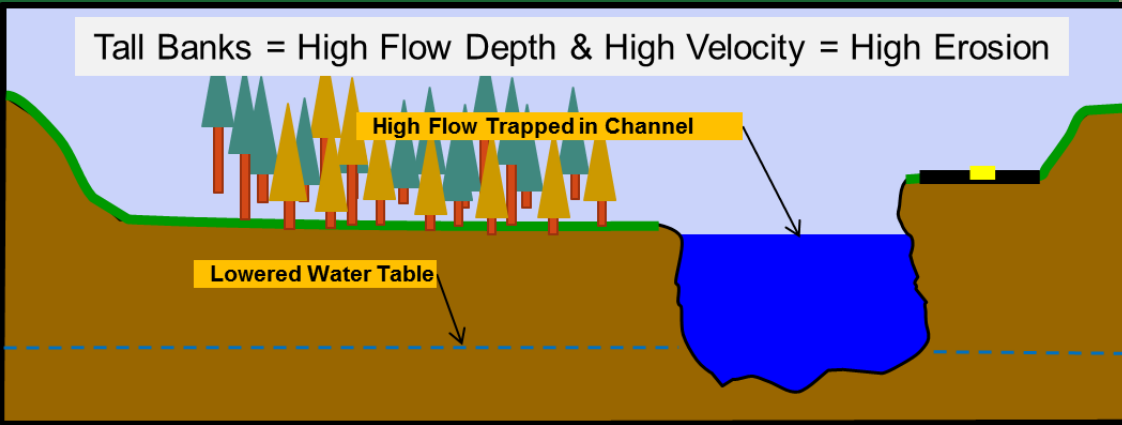
Browns River, Underhill VT



Tall Banks = High Flow Depth & High Velocity = High Erosion

High Flow Trapped in Channel

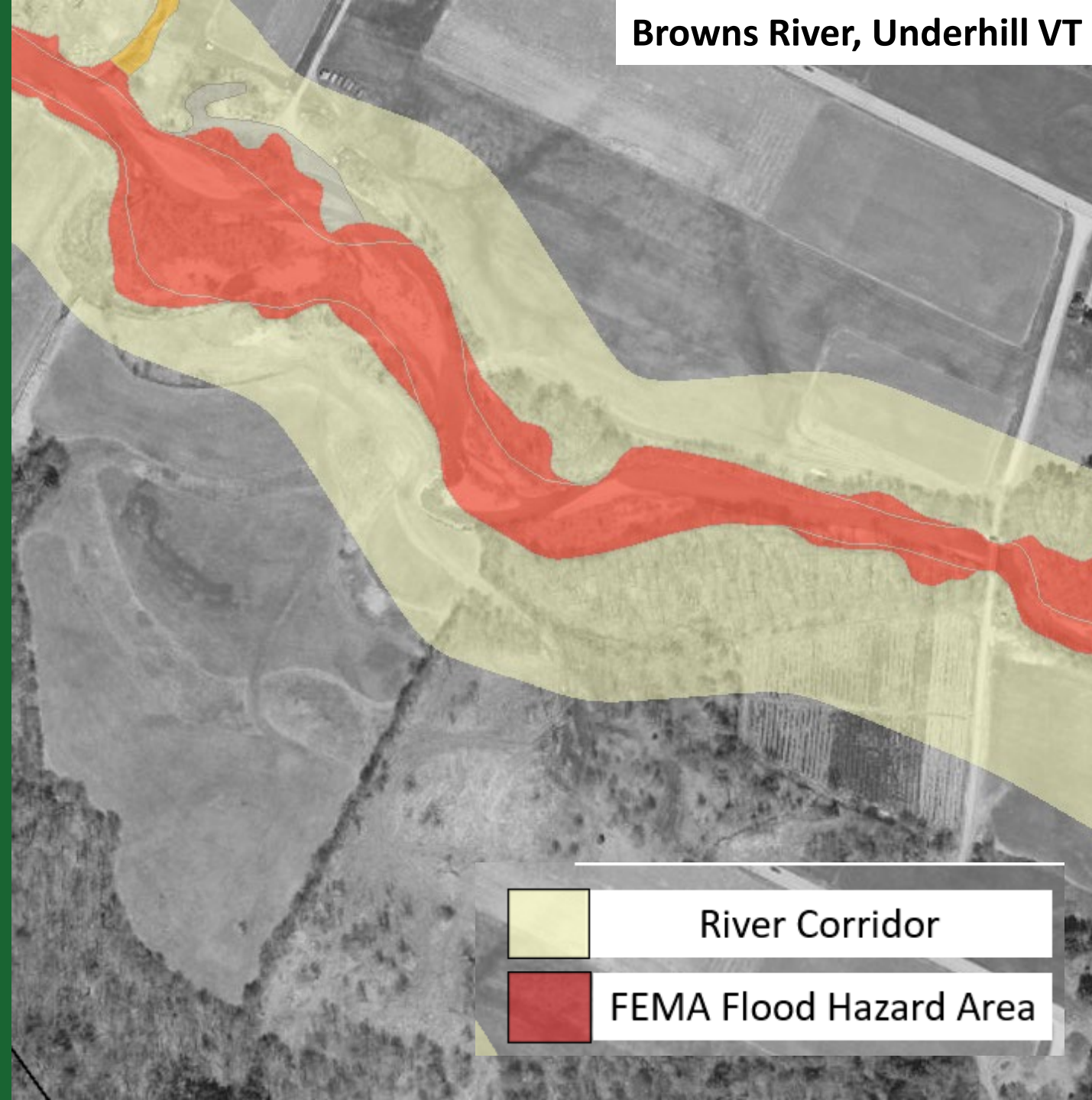
Lowered Water Table





River Corridors

factors the dynamic
nature of rivers into
planning and regulation







Flood-related Erosion



Rochester, VT 2011



Chester, VT, 2011

Photo:Lars Gange Mansfield Heliflight



New encroachments

=

**new bank armoring to
protect to new
encroachments...**

=

**Increased erosion to
adjacent properties and
infrastructure**



STORM CLEANUP

FEMA TOURS STORM DAMAGED AREAS



WATERSHED
MANAGEMENT DIVISION
RIVERS PROGRAM

River Corridor Regulation

Avoidance Strategies
& No Adverse
Impact Standards

1. Act 250: Criterion 1D – Floodways

River Corridor considerations since
2003



River Corridor Regulation

Avoidance Strategies
& No Adverse
Impact Standards

1. Act 250 – Criterion 1D Floodways

- Flood Hazard Area & River Corridor Protection Procedure

2. State Flood Hazard Area & River Corridor Rule (2015)

- State-owned buildings and facilities,
- Required Agricultural and Silvicultural Practices, and
- Power generation/transmission facilities subject to the PUC Section 248 Process.



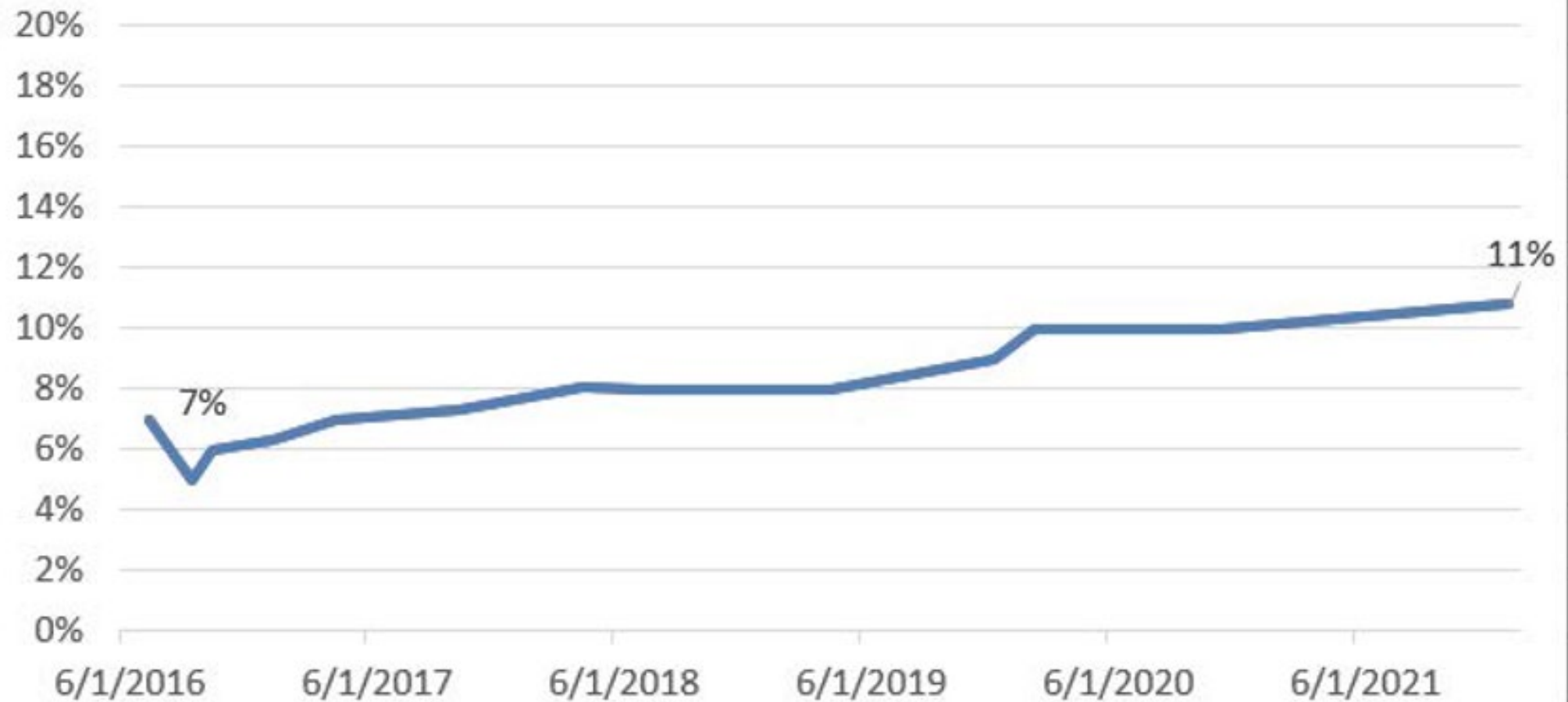
River Corridor Regulation

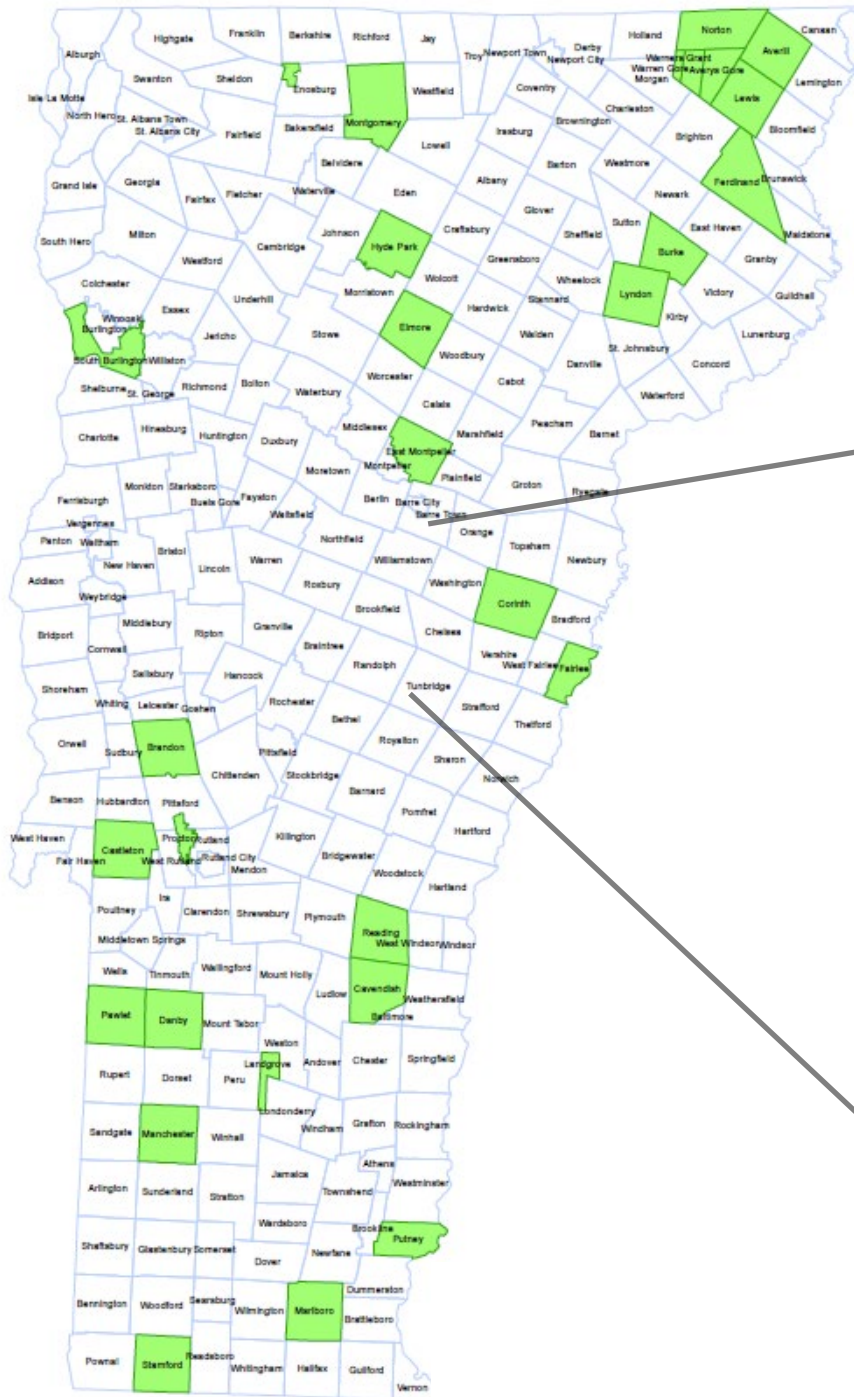
Avoidance Strategies
& No Adverse
Impact Standards

1. Act 250 – Criterion 1D Floodways
2. State Flood Hazard Area & River Corridor Rule (2015)
3. **Municipal Permits (state model bylaws)**
 - 29 Towns have currently adopted town-wide river corridor bylaws



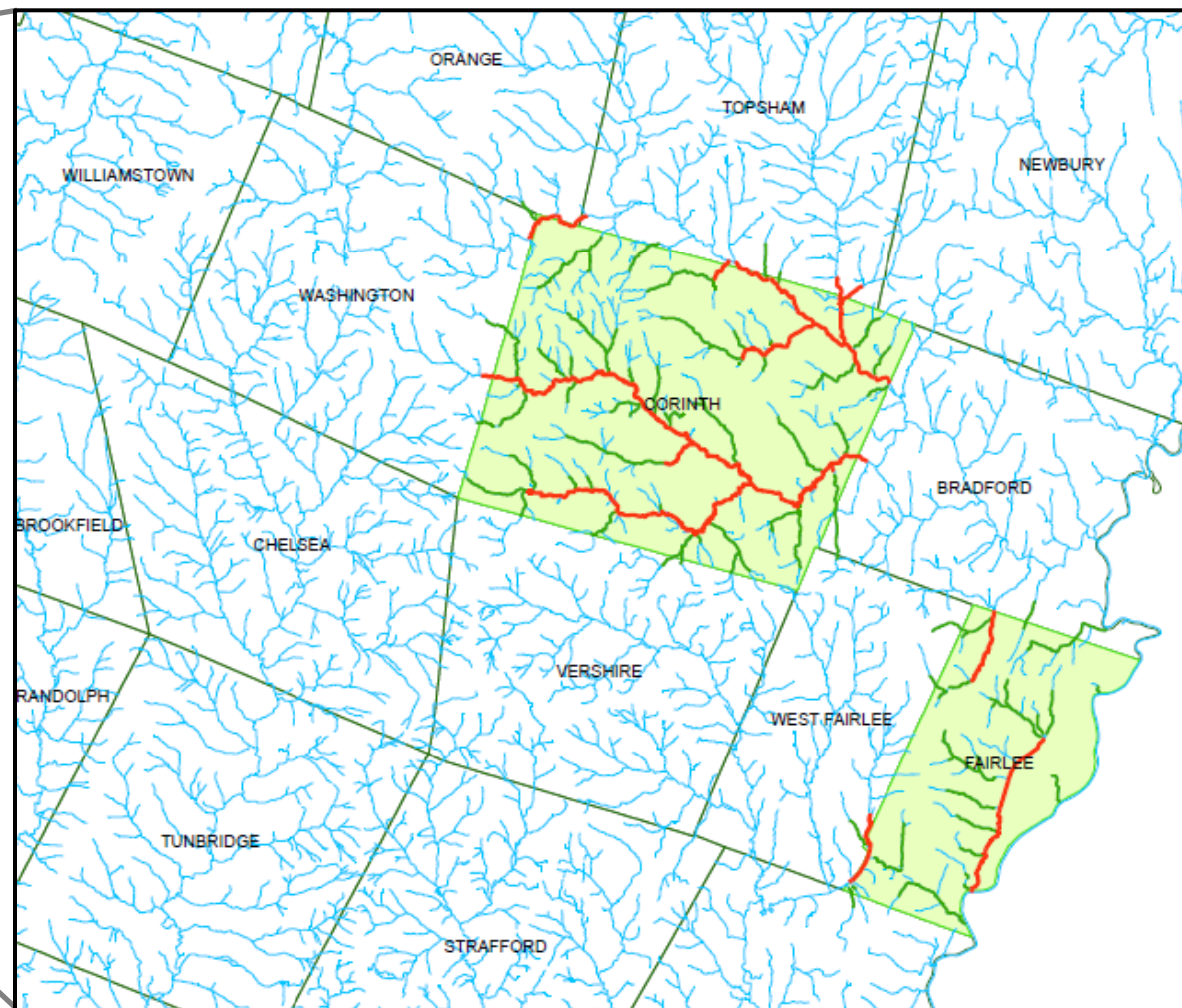
Direct Protection of River Corridors by Municipalities





Towns with adopted River Corridor bylaws

- **29 Towns (town-wide regulation)**
- **9 % of perennial stream miles**





Towns with adopted River Corridor bylaws

- 29 Towns (town-wide regulation)
- 9 % of perennial stream miles

