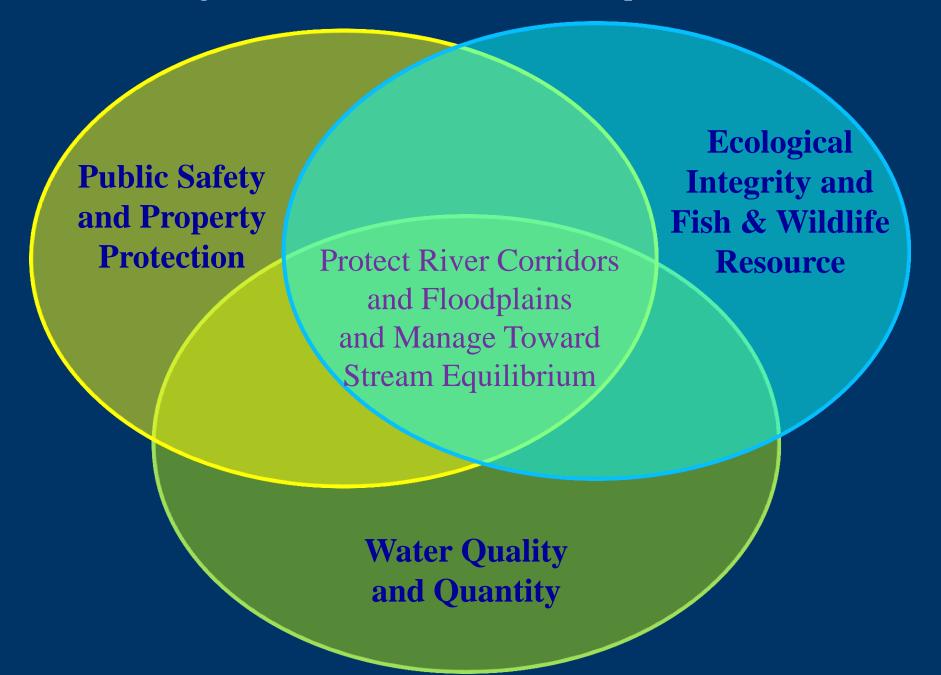
"Giving Rivers Room to Move" creates public co-benefits



~ 50% of Vermont streams historically channelized



How DYNAMITE

streamlines streams

Practically every farm in the heavy crop-producing areas of the United States needs some ditching, and there is hardly a stream in the entire boundary of the Union that does not need to be corrected to give better service in discharging the large amounts of waste water from heavy rains, and to protect low lands.





FIG. 54. DIAGRAM OF STREAM TROUBLES THAT MAY BE

CROOKED STREAMS are a menace to life and crops in the areas bordering on their banks. The twisting and turning of the channel retards the flow and reduces the capacity of

the stream to handle large volumes of water. Floods result. Crops are ruined. Lives are lost. Banks are undermined, causing cave-ins that steal valuable acreage.

Acknowledgement:

Trying to contain flows and rapidly drain the land.....



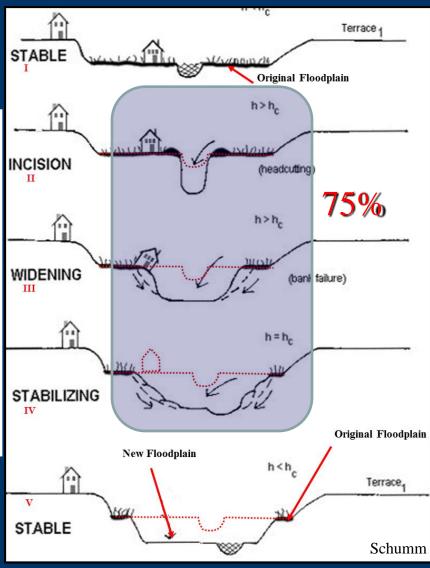


...has been a recipe for erosion in Vermont.

Major erosion and depositional processes underway in response to channelization.



Data from 2,200 miles of Vermont river surveys confirm their evolution to a more stable form.

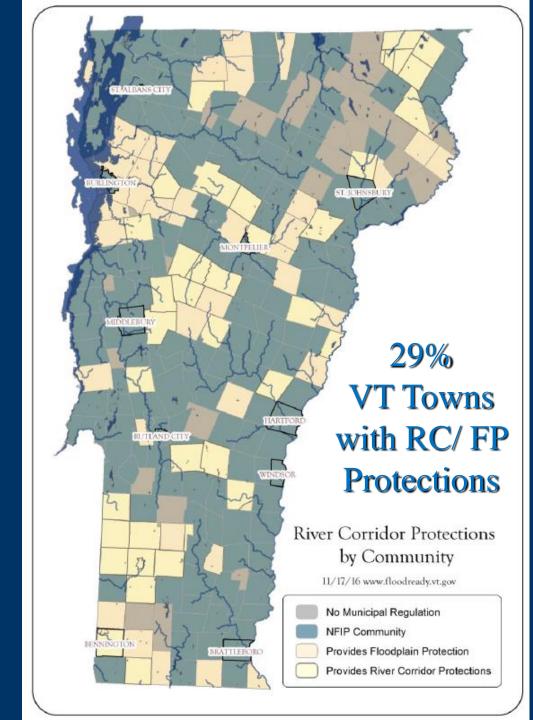


Acts 110, 138, 16, 107: Enhance State and municipal floodplain regulation and create tools and incentives for river corridors protection.



Incentives for Vermont Municipal Actions

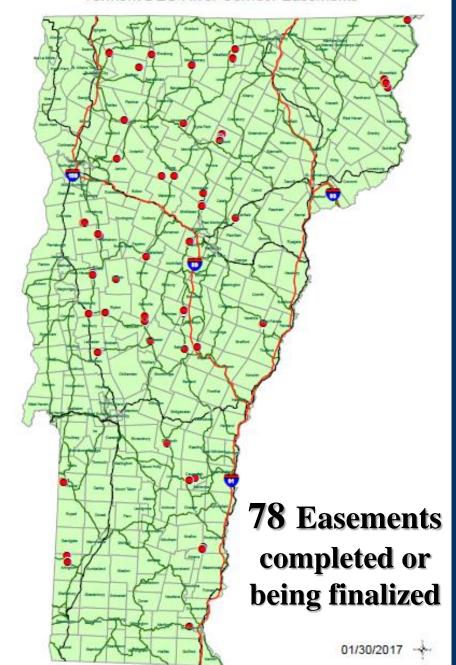
- 1. Support river and floodplain data collection
- 2. Assist with planning and implementation
- 3. Increase State and Fed cost share and grants
- 4. Link disaster recovery cost share funding to municipal protections



Avoidance Strategy:

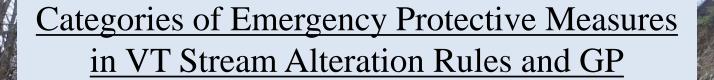
- Protect floodplain function to slow, dissipate and store flood water, erosive energy, sediment and nutrients.
- Protect river corridors to achieve and maintain the least erosive river channel, promote floodplain formation, and restore riparian ecosystems.

River Corridor Easements: Buy channel management rights to allow for sediment storage at key watershed locations



STANDARD RIVER MANAGEMENT PRINCIPLES AND PRACTICES:

Guidance for Managing Vermont's Rivers Based on Channel and Floodplain Function



- Removal of flood-related deposits to create stream channel conveyance.
- > Streambed or streambank fills to address critical public access or limit vertical or lateral stream movements that represent an imminent threat.
- ➤ Temporary crossings or berms to create access or prevent direct impingement of flows against improved property.

West Branch Deerfield River, Readsboro

Vermont Rivers and Roads Training

- Tier 1 Online training course How Rivers Work
- Tier 2 Three day field course Rivers and Roads
- Tier 3 Day-long design courses

