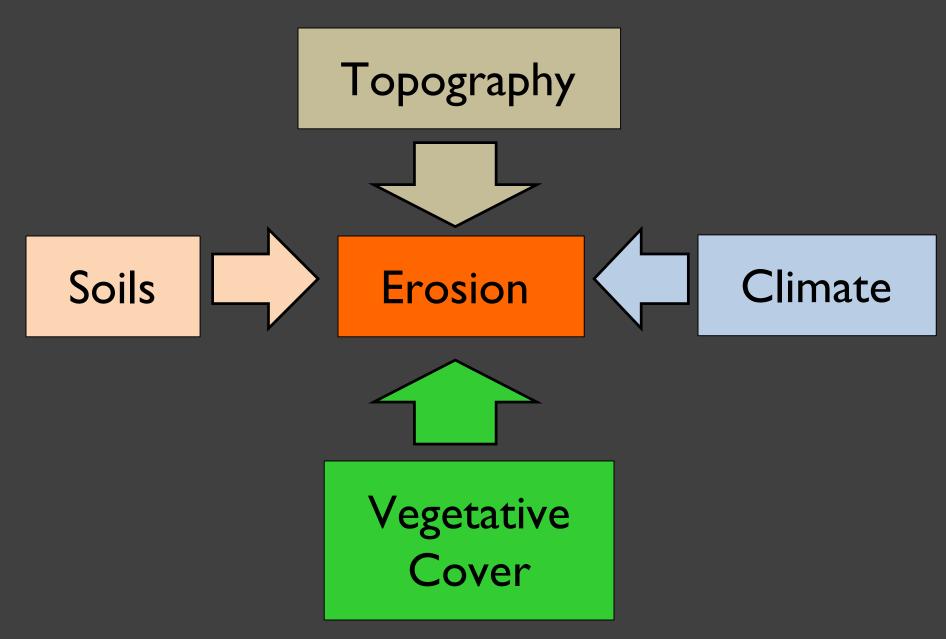


Erosion is an important natural process





Factors that influence erosion

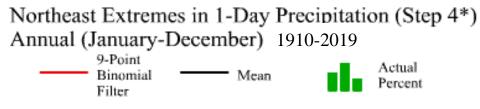


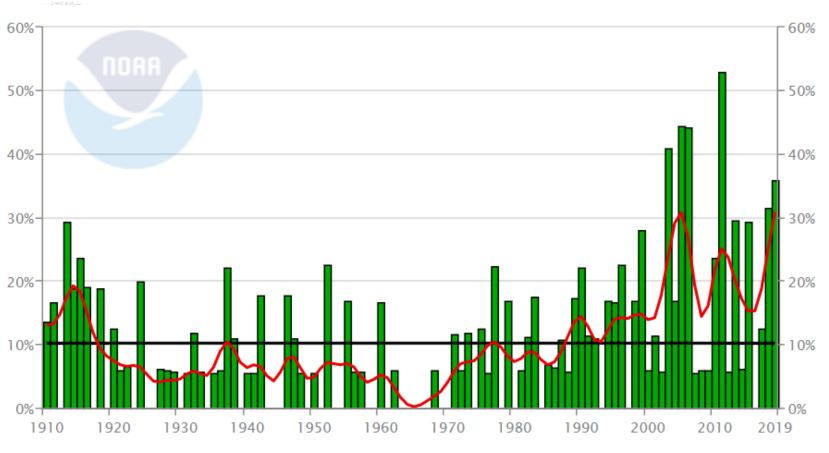


Following Hurricane Irene 2011

Image Credit: Robert Simmon

Extreme precipitation is more frequent.





On & off property conditions contribute to erosion







Culverts River scouring Steep slopes







Bartholomew's Cobble

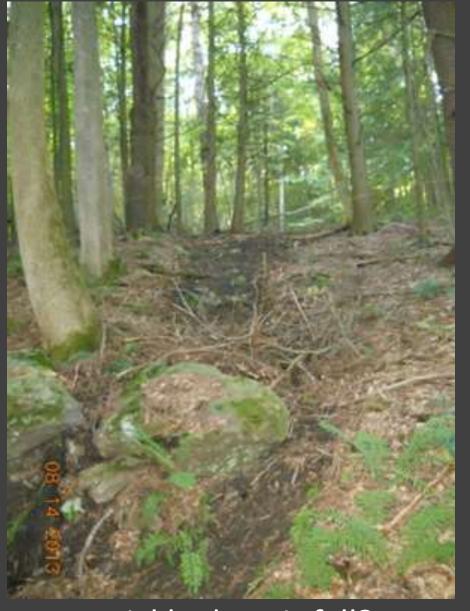
Naumkeag







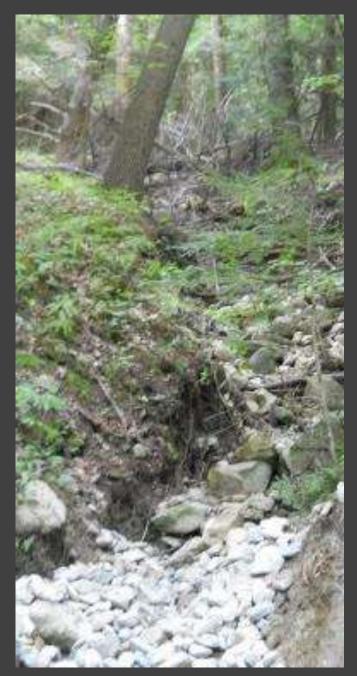
Bartholomew's Cobble.
Why are we having more gully formation and erosion?



How quickly does it fall? Soil conditions, slope, vegetation

What can 1.5+ inches of rain do?





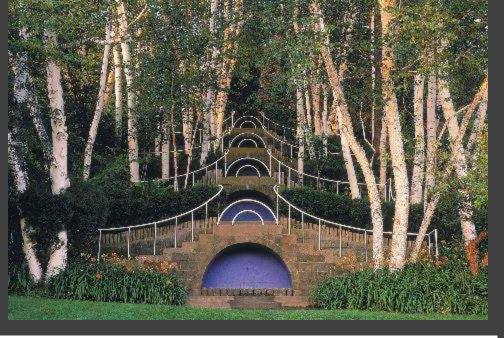


Larger rocks moved by water during storms



Erosion increasing:

- channelized flow increases velocity
- sedimentation into wetlands and uplands
- bank failures and soil loss



Naumkeag





Gully went from shallow swale developing over decades, to deep ravine following several severe storms





What are we doing to slow the flow?

Source control

Infiltration

- Partnerships
- Observe changes







Source control

Bioretention basin



Slowing Flow & Infiltration



Slowing Flow & Infiltration





Slow the Flow & Infiltration

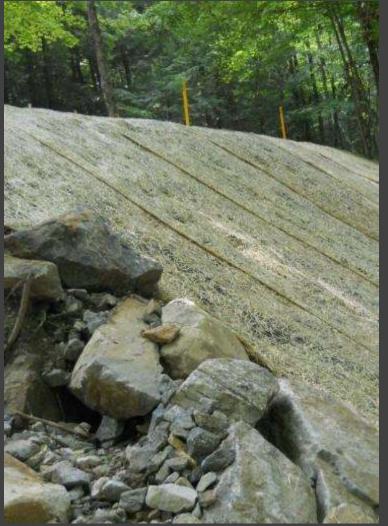






Partnerships





Best Management Practices





Observe for Changes

Julie Richburg The Trustees



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Thank you