

The Fundamentals of Proactive & Protective Floodplain Management

What are floodplains?

"Floodplain" or "Flood-prone area" means any land area susceptible to being inundated by water from any source.

This includes overflow of inland or tidal waters, or unusual and rapid accumulation or runoff of surface waters from any source.







Base Flood

The flood having a one percent chance of being equaled or exceeded in any given year.

What are flood maps or FIRMs?



Flood Maps (Flood Insurance Rate Maps)

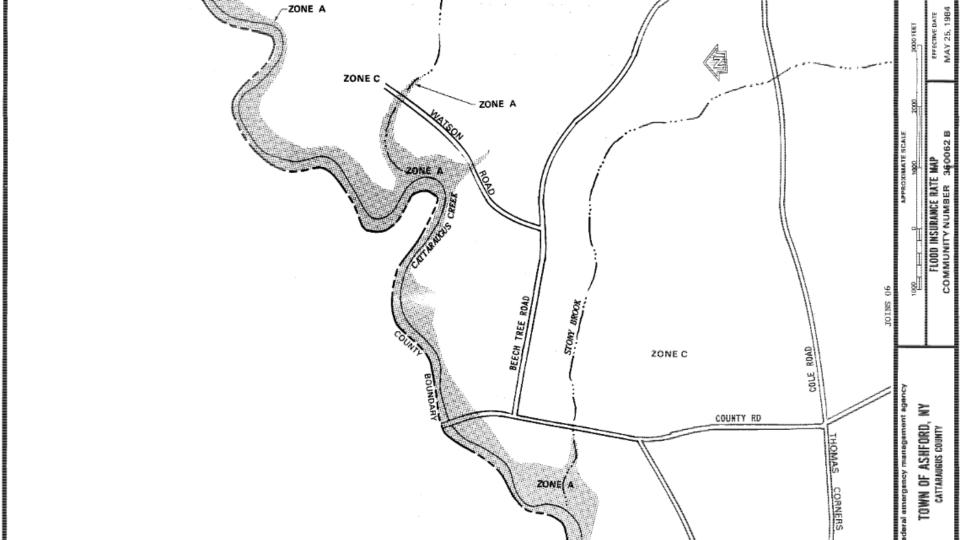
What they do...

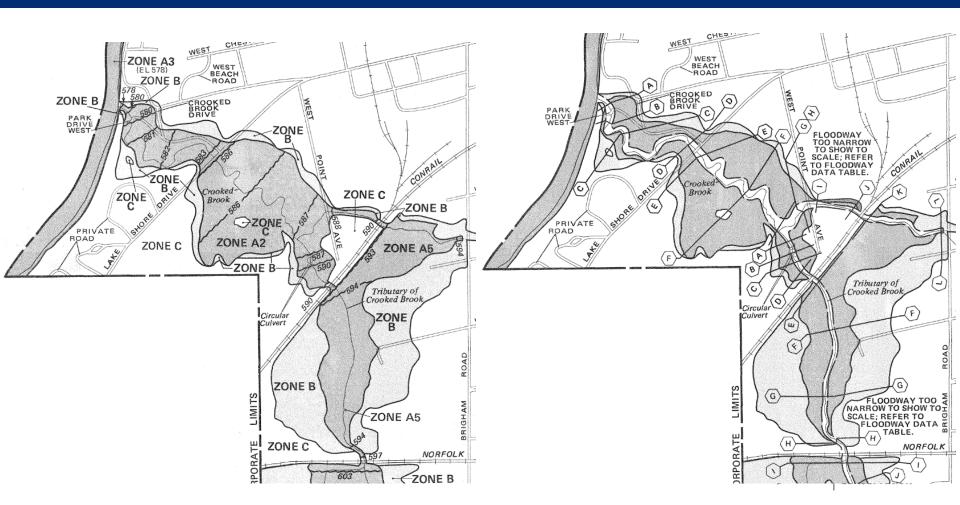
- Identify areas within a community with a high risk of flooding
 - Show the extents of the 1% and 0.2% storm events
- Determine flood insurance requirements and policy costs
- Establish where floodplain management regulations apply

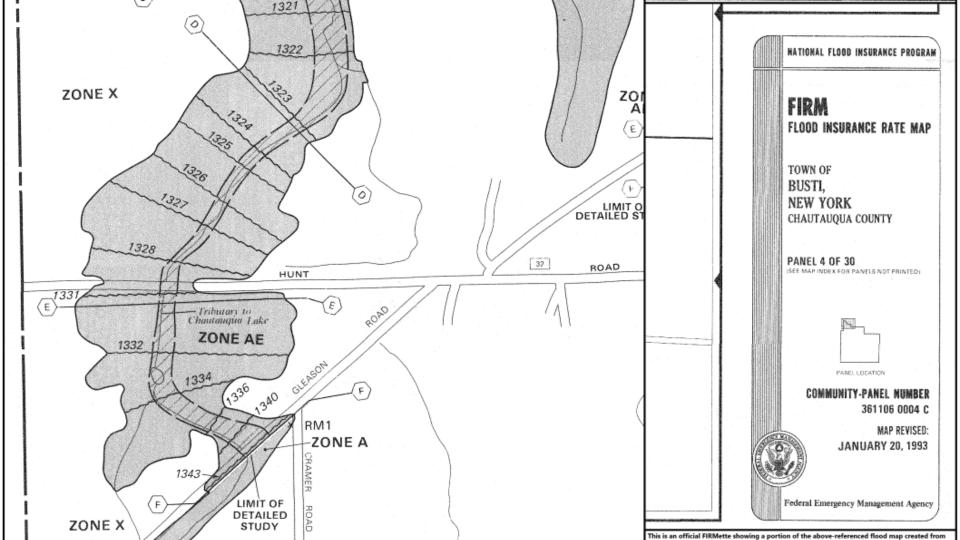
What they don't...

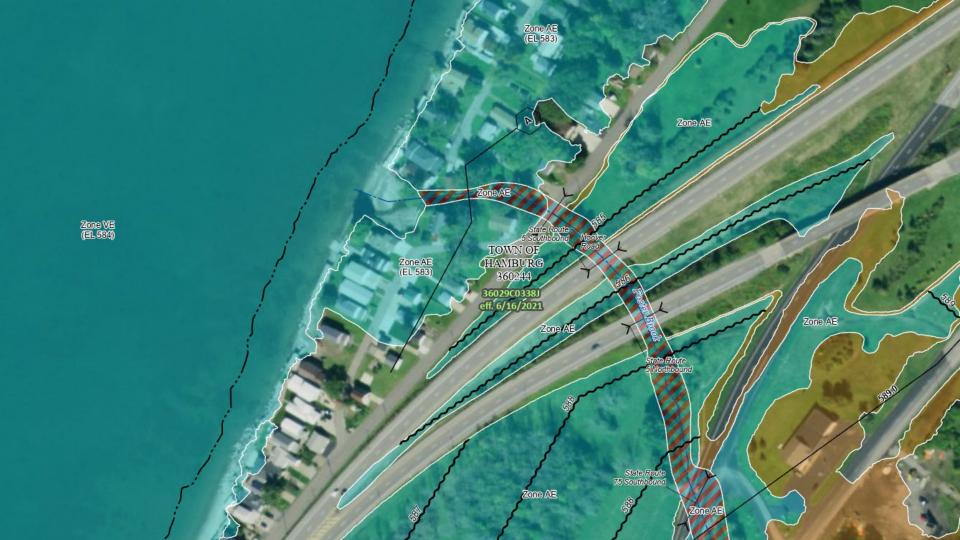
- Show the extents of higher frequency storm events
- Show flooding impacts due to ice or debris jams
- Show stormwater issues or impacts from development
- Get updated regularly due to budget limitations
- Account for impacts from climate change

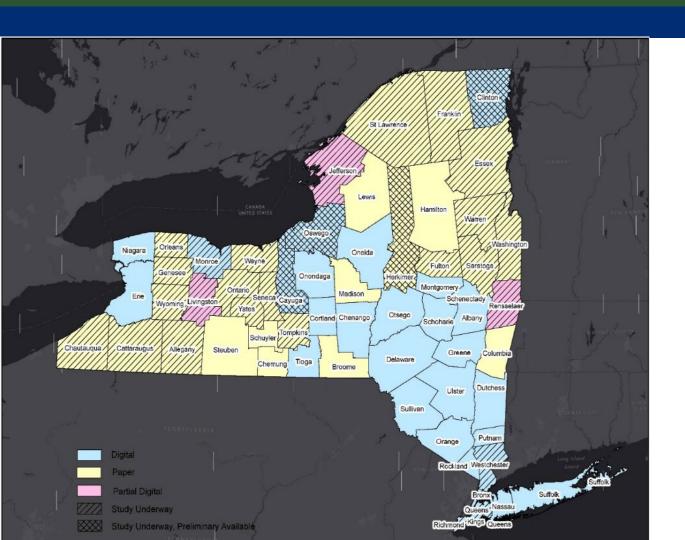
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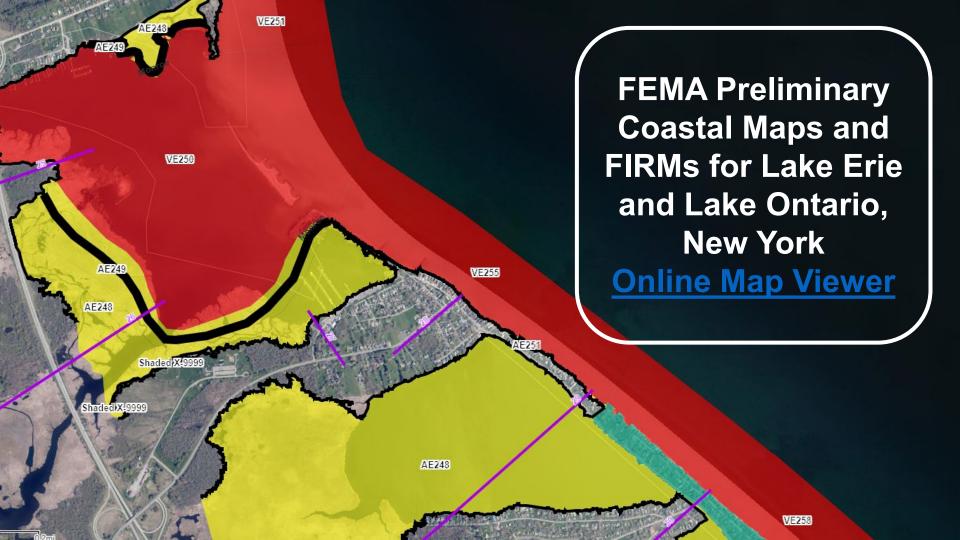






Current Mapping Status

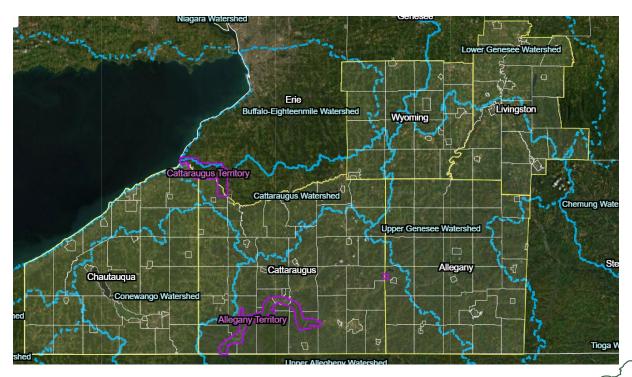




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Base Level Engineering (BLE)



Community Role

- Adopt a local flood damage prevention ordinance
- Regulate all development within FEMA identified Special Flood Hazard Areas (SFHA)
- Ensure the maps are up to date by requiring LOMC for any project that will change the floodplain boundaries or BFE
- Maintain all records
- Remedy violations



Consequences

- People and property at risk
- Emergency response costs and risk to personnel
- Costs to continually repair and rebuild
- Impacts to neighboring communities









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Photo | Luke Latini

Priest Dies in Northern New York in Storm That Lashed the Northeast

Tens of thousands of people remained without power on Saturday and states of emergency were declared in 12 New York counties.









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Benefits

- Safer, more resilient community
- Decreased flood damages
- Lower flood insurance rates
- Maintain property values
- Maintain NFIP status and access to Federal funds









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Tools/Resources

For Better Floodplain Management



No Adverse Impact

Association of State Floodplain Managers (ASFPM) developed a NAI Toolkit for common sense floodplain management.

- Fill in data gaps for mapping
- Educate your residents about their flood risk
- Update your comprehensive plan to address flooding
- Adopt higher regulatory standards
- Protect at risk infrastructure



Nature Based Solutions

Watershed Scale:

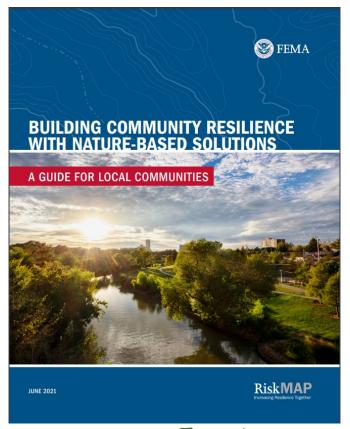
- Land Conservation
- Greenways
- Wetland Restoration
- Floodplain Restoration
- Stormwater Parks

Site Scale:

- Rain gardens
- Green roofs
- Permeable pavement
- Tree trenches
- Vegetated swales
- Rain barrels
- Tree canopy
- Green streets

Coastal Areas:

- Coastal Wetlands
- Dunes
- Living Shorelines
- Oyster Reefs
- Waterfront Parks





CRRA Model Local Laws

The Community Risk and Resiliency Act required DOS with DEC to develop model local laws that include consideration of future risk due to sea-level rise, storm surge and/or flooding.



DOS Model Local Laws to Increase Resilience



Community Rating System





A voluntary incentive program that recognizes and encourages community floodplain management practices that exceed the minimum NFIP requirements.

Flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community's efforts that:

- 1. Reduce and avoid flood damage to insurable property
- 2. Strengthen and support the insurance aspects of the program
- 3. Foster comprehensive floodplain management



What should you take away?

- Review your community's FIRMs to better understand where your community is at risk
- Find out who your floodplain administrator is. Make sure they understand their floodplain management responsibilities and how you can support them
- Require development that changes the floodplain apply for the proper LOMC
- Enforce the minimum standards and consider adopting and enforcing higher standards

Thank You!

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