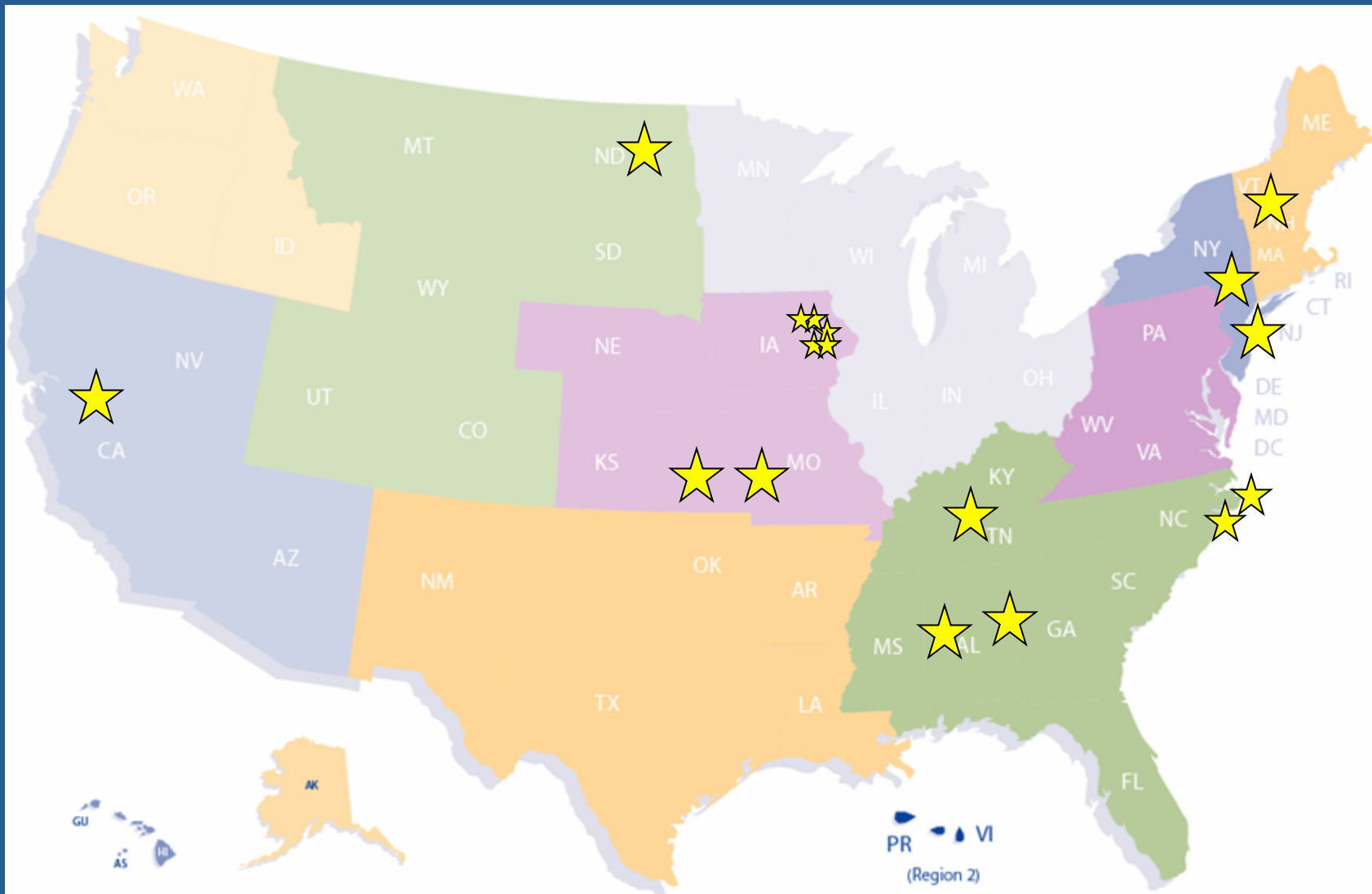


Memorandum of Agreement (MOA) between EPA and FEMA

- Signed in 2010, grew out of collaboration between EPA & FEMA after floods in Iowa in 2008.
- As part of FEMA's long-term recovery efforts, EPA provided assistance to 5 Iowa communities on smart growth, green infrastructure, & green building.



Joint Projects



Smart Growth Implementation Assistance in Vermont

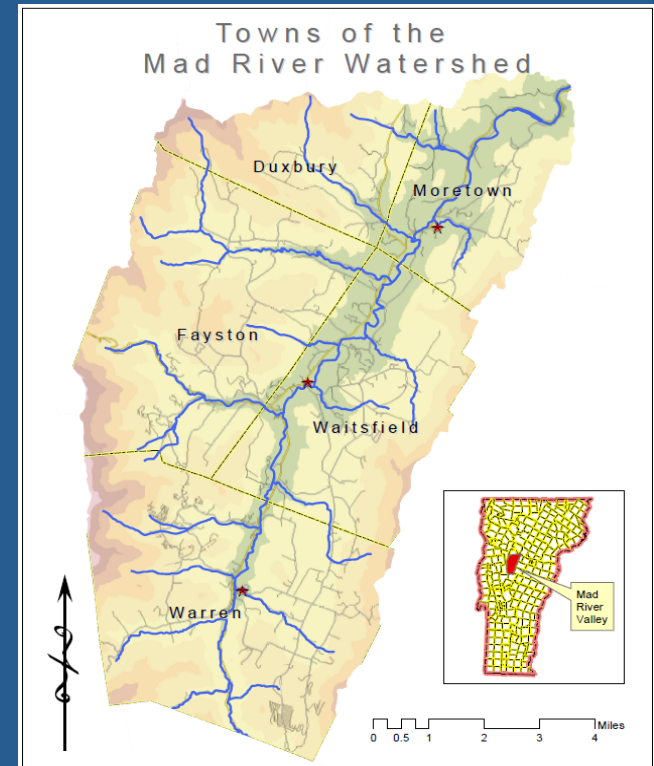
- Flooding & erosion from Tropical Storm Irene in August 2011.
- VT requested assistance in
 - helping communities become more resilient to future flooding.
 - assessing how state agency programs & policies help or hinder resilience.
- Partners: FEMA, state agencies, Mad River Valley Planning District, Friends of the Mad River, Central VT Regional Planning Commission.



Mad River Valley

We reviewed development regulations and plans to develop options for:

1. Protecting river corridors.
2. Developing in safer areas.
3. Protecting vulnerable settlements.
4. Managing stormwater.



Community Checklist

Example: Overall Strategies to Enhance Resilience

- *Does the community comprehensive plan have a hazard element that includes flood planning or is addressed in another section of the plan?*
- *Does the community plan cross reference the local hazard mitigation plan (HMP) and any disaster recovery plans?*
- *Does the community plan identify flood-prone areas, including River Corridor/Fluvial Erosion Hazard areas, if applicable?*
- *Did the local government emergency response personnel, floodplain manager, or department of public works participate in the community plan process?.....*

Progress in the Mad River Valley

River Corridors: Warren passed Fluvial Erosion Hazard Zoning bylaws.

Vulnerable Settlements: Mad River stream bank stabilization project.

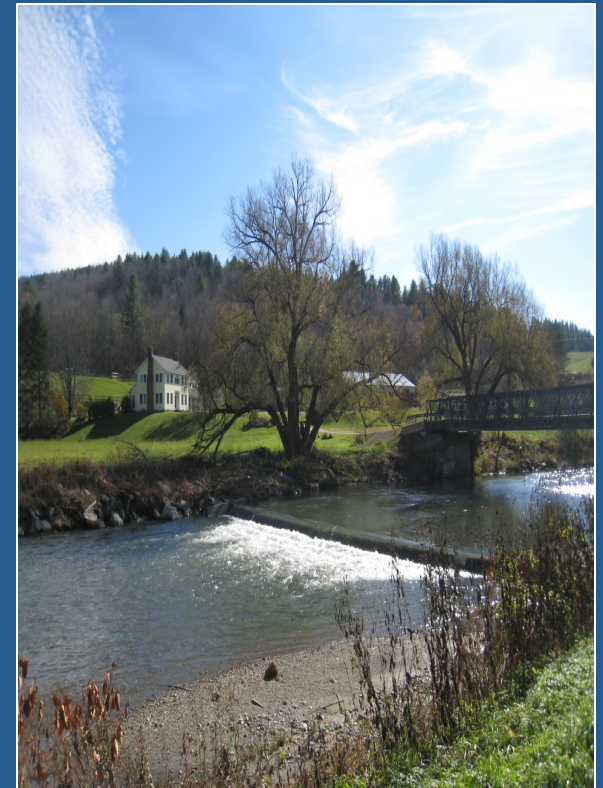
Safer Areas: Wastewater infrastructure funding in growth center.

Manage stormwater: Green infrastructure demonstration projects.



State Agency Progress

- The Agency of Natural Resources has hired two additional River Engineers.
- VTrans is surveying all 60,000 culverts on state roads to prioritize upgrades and working with Agency of Natural Resources on fish passage and erosion hazards.
- The Agency of Commerce & Community Development is including consideration of floodways when updating certain state designation programs, including Growth Center designations.
- The Division of Emergency Management and Homeland Security has hired additional staff to work on their FEMA-funded Public Assistance program.



For more information:

- Interim reports available at Vermont's *Plan Today for Tomorrow's Flood* website:
[http://accd.vermont.gov/
strong_communities/opportunities/planning/
resiliency](http://accd.vermont.gov/strong_communities/opportunities/planning/resiliency)
- Final EPA report to be posted at
www.epa.gov/smartgrowth in spring 2014.

Moving Forward

- State, Local, and Tribal Leaders Task Force On Climate Preparedness and Resilience
- HUD-DOT-EPA Partnership for Sustainable Communities
- FEMA Partnership
- NOAA Partnership
- Internal look at EPA programs, policies, and grants

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