



**CAC/Climate Smart Dover Task Force**  
**Saturday, April 8, 2017**  
**126 East Duncan Hill Road**  
**Dover Plains, NY**

Evan van Hook, Chair, CAC and CSD  
Katie Palmer-House, Co-Chair, CSD  
Constance DuHamel  
Linda French  
Debra Kaufman  
Greggory Mendenhall  
Janet Pickering  
Tamar Roman  
Josh Viertel

- 
1. Call Meeting to Order
  2. Pledge of Allegiance
  3. Accept Minutes of March 11, 2017 Meeting
    - A. Minutes of March 11, 2017 Meeting

Agenda Items

4. Congratulations to Stancy DuHamel- DC Tourism Award Finalist!
5. Update on Climate Smart Communities Certification Grant
6. Update on Comprehensive Plan Update
7. Adopt a Highway Community Clean Up Event-Saturday, April 22, 2017
8. Information on NY NJ Trail Conference Invasive Species Treatments
9. Update on Planning Board Meetings
10. Review and Discuss List of Possible CAC Projects
11. Set Goals and Date for Next Meeting  
Saturday, May 13, 2017 at 10 a.m. at Dover Town Hall
12. Adjournment



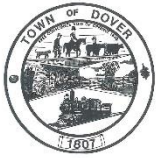
**CAC/Climate Smart Dover Task Force**  
**4/8/2017**  
**Minutes of March 11, 2017 Meeting**

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**ATTACHMENTS:**

**Description**

- ☐ March 11, 2017 CAC/CSD Meeting Minutes



## CONSERVATION ADVISORY COUNCIL AND CLIMATE SMART DOVER TASKFORCE

**MARCH 11, 2017  
10 -11:30 A.M.  
DOVER TOWN HALL**

Present: Evan van Hook, Gregory Mendenhall, Stancy DuHamel, Janet Pickering, Tamar Roman  
Katie Palmer-House, Councilman Viertel and Supervisor French

Supervisor French provided an update on the Comprehensive Plan Update (CPU) Technical Assistance Committee's development of the CPU narrative report along with corresponding draft zoning changes. She thanked Chairman vanHook for reviewing the working draft of CPU narrative and for his feedback on ways to strengthen the document by integrating climate-smart, environmental justice and green and renewable energy production as core tenets of the update.

Chairman VanHook offered the CAC's assistance with feedback on Climate Smart Communities certification (grant-related) reports and support with community-based initiatives to promote public awareness and protection of the Town's unique natural resources. Supervisor French offered to circulate the revised draft of the new Zoning chapter to Taskforce members as soon as the Technical Assistance Committee had completed their internal review.

Katie Palmer-House provided an update on grant-related activities implementing the Climate Smart Communities certification program. She distributed and reviewed the (grant-related) objectives for preparation of a town-wide Natural Resource Inventory, a Road-Stream Crossings Vulnerabilities Assessment, the Review of Existing (Town) Environmental and Conservation-related policies and procedures and a Government Operations Greenhouse Gas (GHG) Inventory and Climate Action Plan. Agreements were being developed with Hudsonia, Ltd. for the natural resource inventory and the Housatonic Valley Association (HVA) for the Vulnerabilities Assessments and Reviews of Policies.

At members' suggestion, it was agreed that the impacts of road salt and use of herbicides should be included in the scope of work for the Road-Stream Vulnerabilities Assessment. Katie will discuss the addition of this component to the scope of work with Mike Jastremski and Carolyn Klocker at HVA.

Before the meeting concluded, members agreed to schedule the next Conservation Advisory Council and Climate Smart Dover Taskforce meeting for Saturday, April 8, 2017 at 10 a.m. at Dover Town Hall.

Respectfully submitted,

Katie Palmer-House  
Climate Smart Dover Taskforce Co-Coordinator



**CAC/Climate Smart Dover Task Force**  
**4/8/2017**  
**Update on Climate Smart Communities Certification Grant**

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**ATTACHMENTS:**

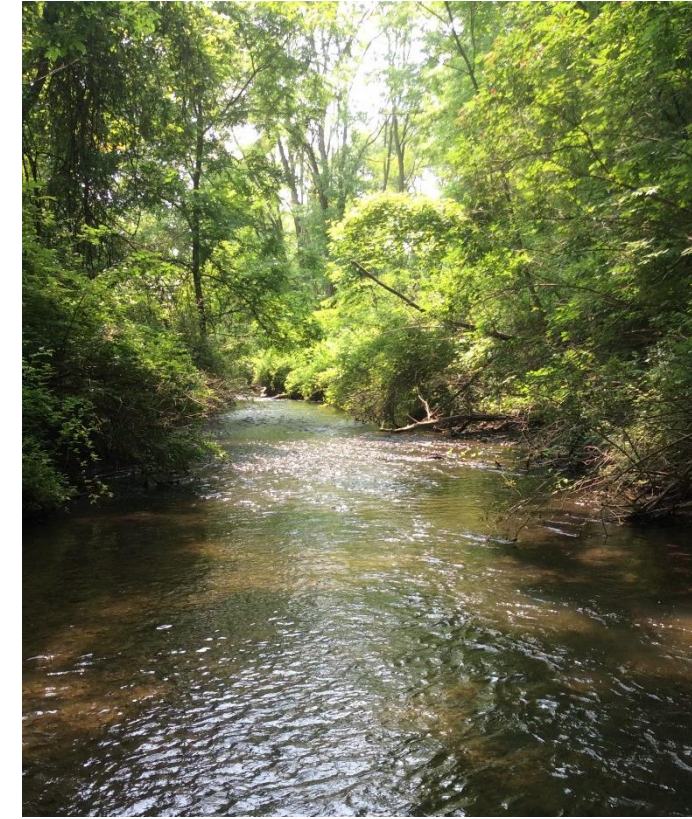
**Description**

- ▣ HVA Presentation on Climate Smart Communities Studies

# Climate Smart Communities Grant

Dover Town Board Meeting  
March 29, 2017

Carolyn Klocker & Mike Jastremski  
Housatonic Valley Association



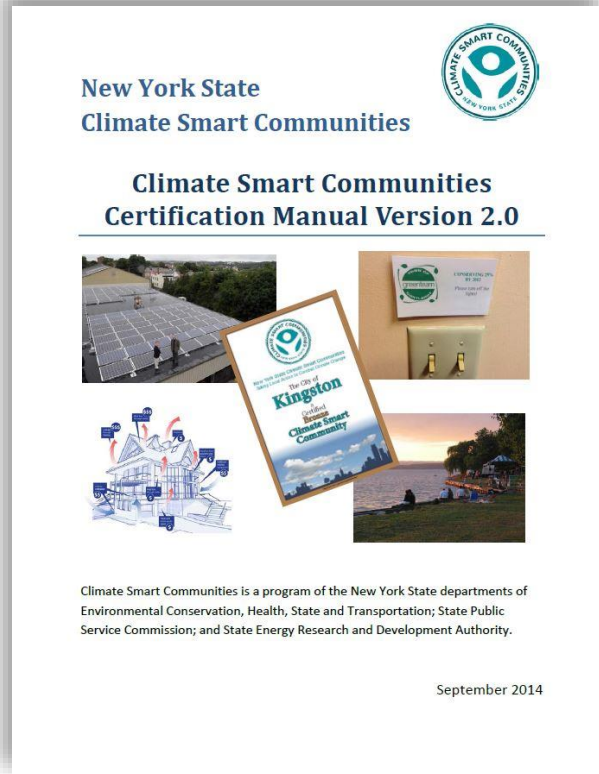
*water protection*



*water protection*



# NYS Climate Smart Communities Certification Program & Grants






*water protection*






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# Grant Deliverables

Action Item	Provider
2.1 Develop a government operations GHG emissions inventory*	TBD
2.5 Develop a government operations climate action plan*	TBD
6.17 Conduct a Natural Resource Inventory	 Hudsonia Ltd.
7.1 Road Stream Crossing Vulnerability Assessment*	 Housatonic Valley Association
7.3 Review existing plans, policies and projects to identify climate adaptation strategies and policies or projects that may decrease vulnerability*	 Housatonic Valley Association

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## 7.1 Road Stream Crossing Vulnerability Assessment





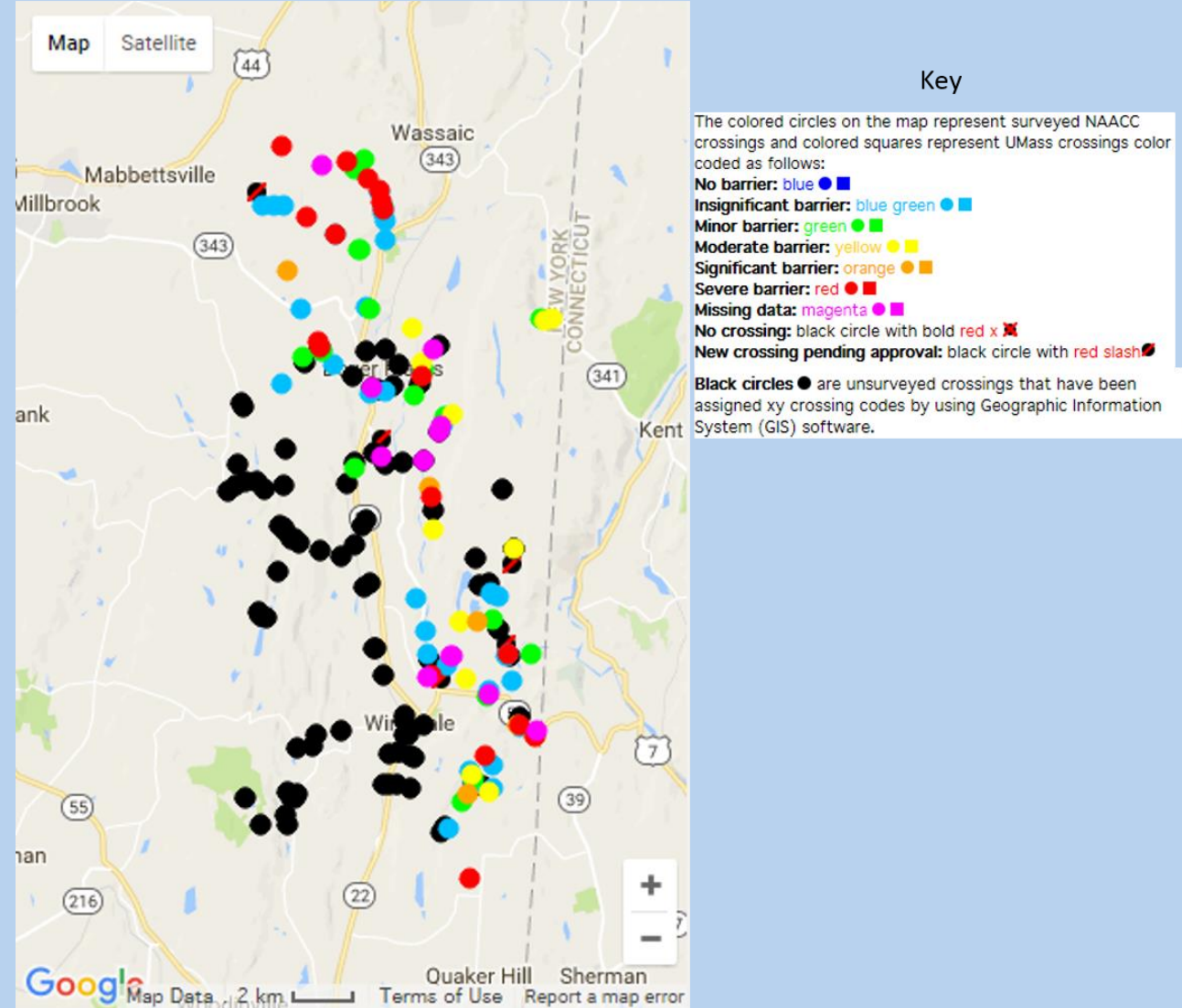
# Collecting Data



## Road Stream Crossings in the Town of Dover, NY

data from the NAACC database

[www.streamcontinuity.org](http://www.streamcontinuity.org)



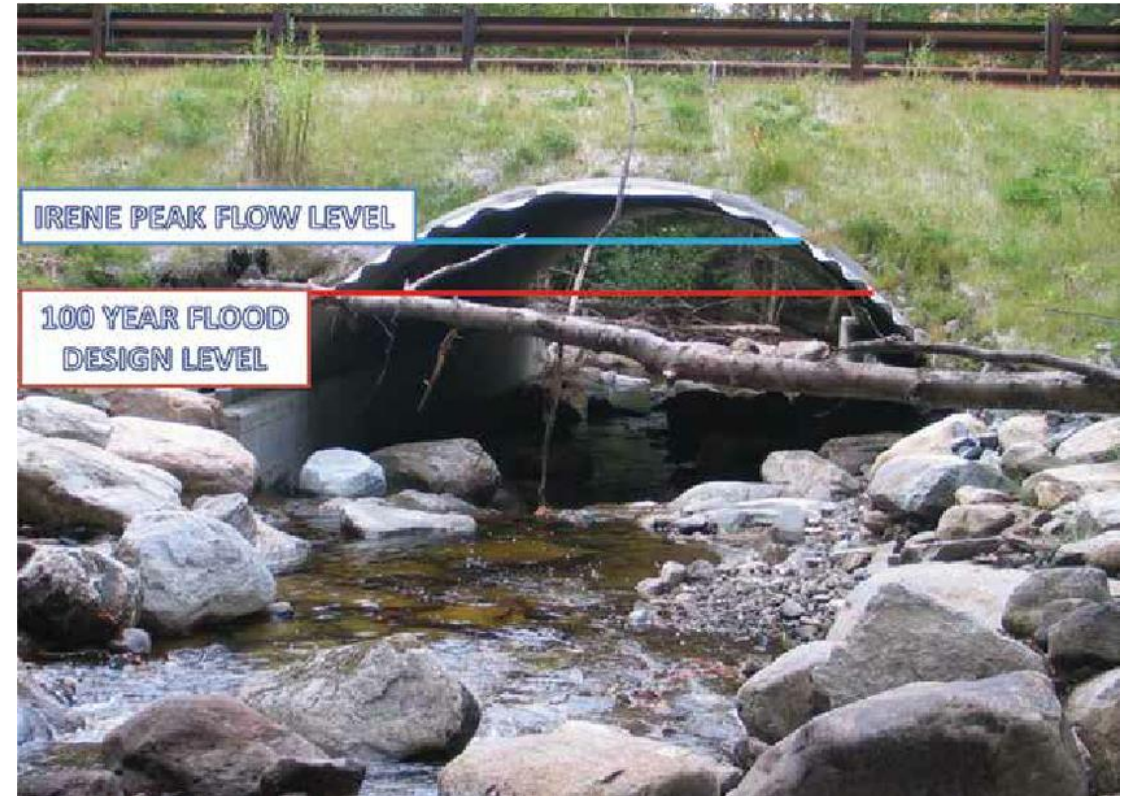
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# Flood Resiliency Models

- Characterize future floods and performance of current structures during those floods
  - Determine peak flows for 2-, 5-, 10-, 25-, 50-, and 100-year flood events
  - Calculate each crossings risk of failure for each flood interval





# Deliverables & Outcomes

- Town Scale Road Stream Crossing Management Plan
  - Inventory
  - Prioritize
  - Develop Implementation & Replacement Strategies



Road: Northrup Road Stream: Unnamed Map Key: C4

Crossing Code: xy4181290973418279

**RESULTS**  
 Barrier Evaluation: Minor Barrier  
 Habitat Restoration Potential: Coming Soon  
 Risk of Failure: Coming Soon  
 Condition Maintenance Notes: Coming Soon  
 Overall Ranking: Coming Soon

**LOCATION**  
 Crossing Code: xy4181290973418279  
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 GPS Coordinates: 41.81301, -73.41824  
 Location Description: Between telephone poles 1553 and 1554

**CROSSING CHARACTERISTICS**  
 Crossing Type: Single Culvert  
 Condition: Fair  
 Number of structures/cells: 1  
 Crossing Span/Construction: Mild Constriction  
 Alignment: Flow-Aligned  
 Road Type/Surface: 2-Lane Road  
 Road Fill Height (feet): No data  
 Crossing Comments: Upstream is a wetland

**STREAM CHARACTERISTICS**  
 Tailwater Score Foot: Small  
 Bankfull Width in feet (confidence): No data

**Inlet**

**Outlet**

Return Interval (Years)	Q	Road Height	Stage Height	Overtop
2				
5				
10				
25				
50				
100				

Town of Sharon Road Stream Crossing Inventory

**STRUCTURE 1 of 1**

**STRUCTURE/CELL CHARACTERISTICS**  
 Material: Concrete  
 Slope Matches Stream: No (steeper)  
 Crossing Slope: 0.013  
 Physical Barriers (description/severity): None  
 Internal Features/Structures: None  
 Clear Line of Sight: Yes  
 Structure Comments: None

**INLET**  
 Inlet Structure Type: Elliptical Culvert  
 Inlet Type: Wingwalls  
 Inlet Drop/Grade: At Stream Grade  
 Inlet Openness Ratio: 0.31

**OUTLET**  
 Outlet Structure Type: Elliptical Culvert  
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 Outlet Openness Ratio: 0.31

**Road**

**Upstream**

**Downstream**

Town of Sharon Road Stream Crossing Inventory

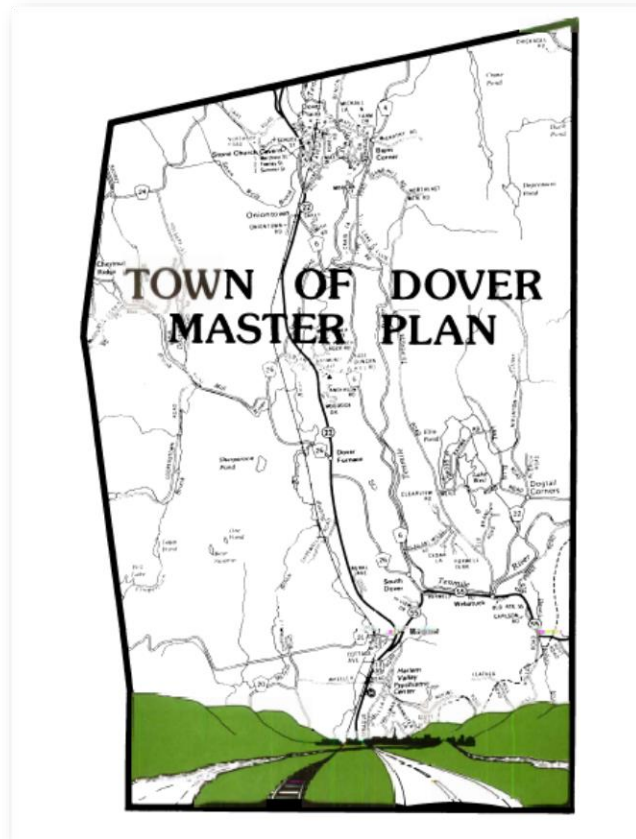


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## 7.3 Review of existing plans, policies and projects to identify climate adaptation strategies, policies or projects that may decrease vulnerability



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### Town of Dover, NY

Dutchess County

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Includes legislation adopted through 07-29-2015.

#### Part I, Administrative Legislation

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- ☐ Chapter 6 **Attorney, Town**
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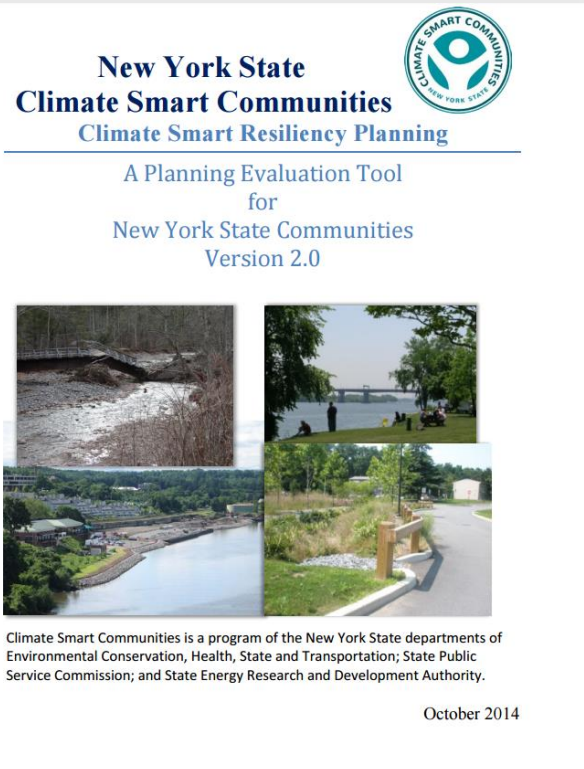


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# CSRP is a checklist to help identify gaps at the beginning of a planning process



Section 1: Community Plan Checklist					
Plans, Ordinances, and Codes	Yes	No	Adoption Year	Update Frequency	Notes
Municipal Master Plan		X			Although though the county haz. mit. plan says yes (table 4-1)
Multi-Hazard Mitigation Plan	X		2010	5 years	Rockland County-level plan
Floodplain Management Plan	X				See A19- flood damage prevention ordinance
Evacuation Plan		X			
Comprehensive Emergency Management Plan		X			According to county haz. mit. plan Piermont has an emergency response plan (table 4-1)- may be referring to FD procedures
Continuity of Operations Plan		X			
Disaster Recovery Plan		X			According to county haz. mit. plan (table 4-1)
Long-term Recovery Plan		X			
Capital Improvements Plan		X			Updated budget, but no plan.
Economic Development Plan/Strategy		X			
Coastal Plan or Element	X		1992		LWRP, currently in the process of being updated
Shoreline Restoration Plan		X			
Open Space Plan		X			



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Slide credit: Libby Zemaitis, NYS DEC HREP



# Engage key municipal decision makers in the process

- Town Board
- Conservation Advisory Committee
- Floodplain Manager
- Engineer
- Highway Department
- Fire Department/Emergency Management
- And more...



*water protection*



*water protection*

Photo credit: Libby Zemaitis, NYS DEC HREP

# The CSRP tool covers six planning areas that are key for climate resiliency

- Section 1 – Community Plan Checklist
- Section 2 – Risk and Vulnerability Assessments
- Section 3 – Public Outreach and Engagement
- Section 4 – Planning Integration
- Section 5 – Disaster Preparedness and Recovery
- Section 6 – Hazard Mitigation Implementation



# Deliverables & Outcomes

- Completed CSRP
- Report identifying gaps in existing plans and policies
- &
- Priorities (identified by municipal decision makers) and recommendations for addressing these gaps.

Section 2 – Risk and Vulnerability Assessments	Yes	No	Other	N/A	Notes
1.1 Does the municipality have a localized hazard risk and vulnerability assessment?			X		In progress- waterfront resiliency task force (DOS hazard risk assessment, COAST vulnerability assessment)
1.2 Have current and future climate hazards been identified?			X		Some- sea level rise flooding, in progress- waterfront resiliency task force
1.3 Are previously identified coastal hazards and disasters mapped through historical information, existing plans and reports, scientific knowledge, and local knowledge?		X			LWRP describes some coastal (and riverine) hazards, but no maps
1.4 Are hazard probability, frequency, magnitude and duration defined?		X			
1.5 Is coastal erosion and/or shoreline change identified as a hazard?	X				LWRP- refers to coastal erosion areas in recommending non-construction mitigation measures and site planning (coastal erosion protection is required in waterfront site plans)
1.6 Is sea level rise identified as a hazard?			X		In progress- waterfront resiliency task force
1.7 Has the municipality adopted the projections of sea level rise from the State Sea Level Rise Task Force?		X			
1.8 Are extreme temperature and heat waves identified as hazards?		X			
1.9 Are extreme precipitation and drought identified as hazards?		X			
1.10 Are conditions identified that could amplify the effect of a hazard, e.g., storm surge inundation at a high tide or erosion of stabilized shorelines?	X				LWRP- coast not specific waterfront resiliency
1.11 Have potential vulnerabilities been prioritized?		X			
Probability of a given climate hazard, e.g., high, medium, low				X	
Likelihood of effect occurrence, e.g., virtually certain/already occurring, high, moderate, low			X		Partially- in progress
Magnitude of consequence, e.g., internal operations, capital and operating costs, number of people affected, public health, economy, and environment				X	
1.12 Have adaptation strategies been identified and categorized?			X		Partially- in progress
Type					
Administration					
Condition					
Timing					
Geography					
1.13 Have adaptation strategies been evaluated and prioritized?			X		Partially- in progress
Strategy cost					
Strategy feasibility					

## Piermont Climate Smart Resiliency Planning Assessment

For use by the Piermont Waterfront Resilience Task Force

May 16, 2014

Prepared by Libby Murphy & Kristin Marcell, Hudson River Estuary Program, New York State Department of Environmental Conservation  
Nava Tabak, Scenic Hudson

The Climate Smart Resiliency Planning assessment (CSRP) is a checklist to identify gaps and opportunities in planning.

As part of the Piermont Waterfront Resilience Task Force effort, the Climate Smart Resiliency Planning tool was used to evaluate opportunities for Piermont to improve its community resilience to climate change. The assessment reviews many long- and short-term aspects of storm and climate change preparedness by reviewing village planning documents, activities, and management. Several municipal staff and volunteers were engaged in the process of completing the assessment. Initiating a group dialogue around these issues has highlighted the need for further action to prepare for a changing climate. The process involved both interviews and a group review of the assessment results, and took just under three months to complete.

Plans and regulations included were:

- Local Waterfront Revitalization Program
- Rockland County Multi-Jurisdictional Natural Hazard Mitigation Plan
- Village zoning code and ordinances

Municipal staff and volunteers engaged in the Climate Smart Planning assessment:

- Lisa DeFeciani, Village Trustee
- Ken DeGennaro, Engineer/floodplain manager
- Dan Goswick, Fire Department
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- Tom Temple, Superintendent, DPW

The task force could consider key opportunities identified in the Climate Smart Resiliency Planning assessment in its final recommendations to the village. The completed assessment highlights areas of opportunity for the Village of Piermont to prepare for climate change and flooding in its municipal operations and planning.



# Questions?

- Carolyn A Klocker  
*New York Watershed Manager*  
[cklocker.hva@gmail.com](mailto:cklocker.hva@gmail.com)

- Mike Jastremeski  
*Watershed Conservation Director*  
[mj.hva@outlook.com](mailto:mj.hva@outlook.com)



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150 Kent Road South  
Cornwall Bridge, CT 06754  
(860) 672-6678, ext. 109

CT office:  
150 Kent Road South  
Cornwall Bridge, CT 06754  
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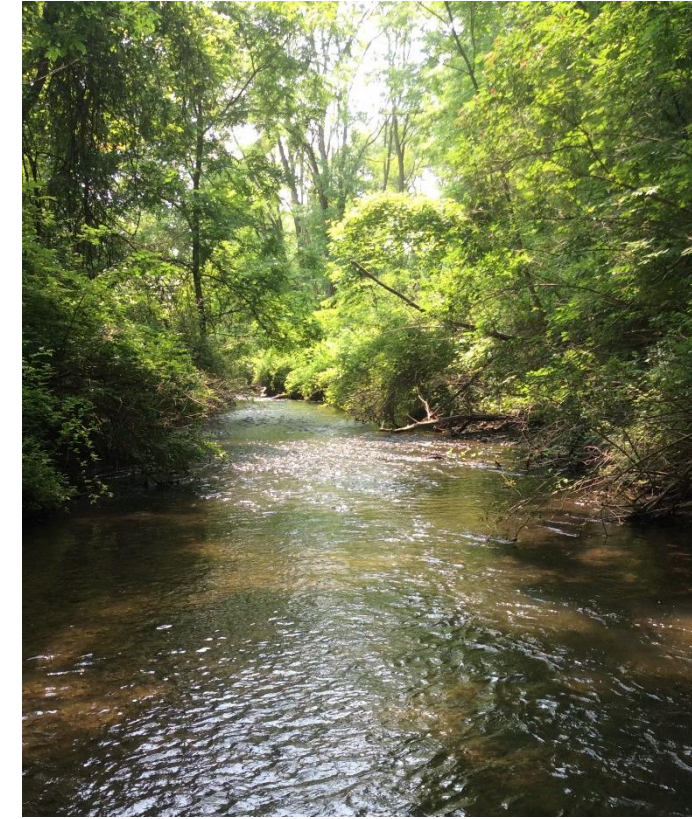
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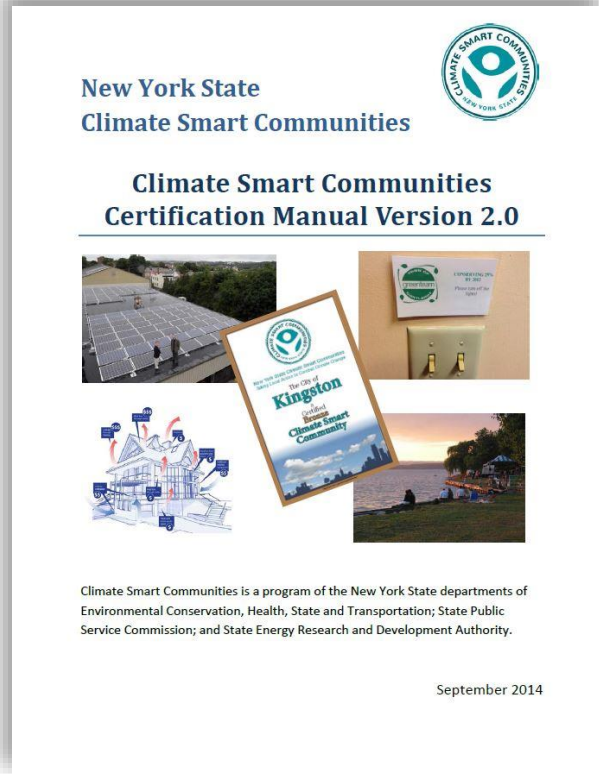


*water protection*



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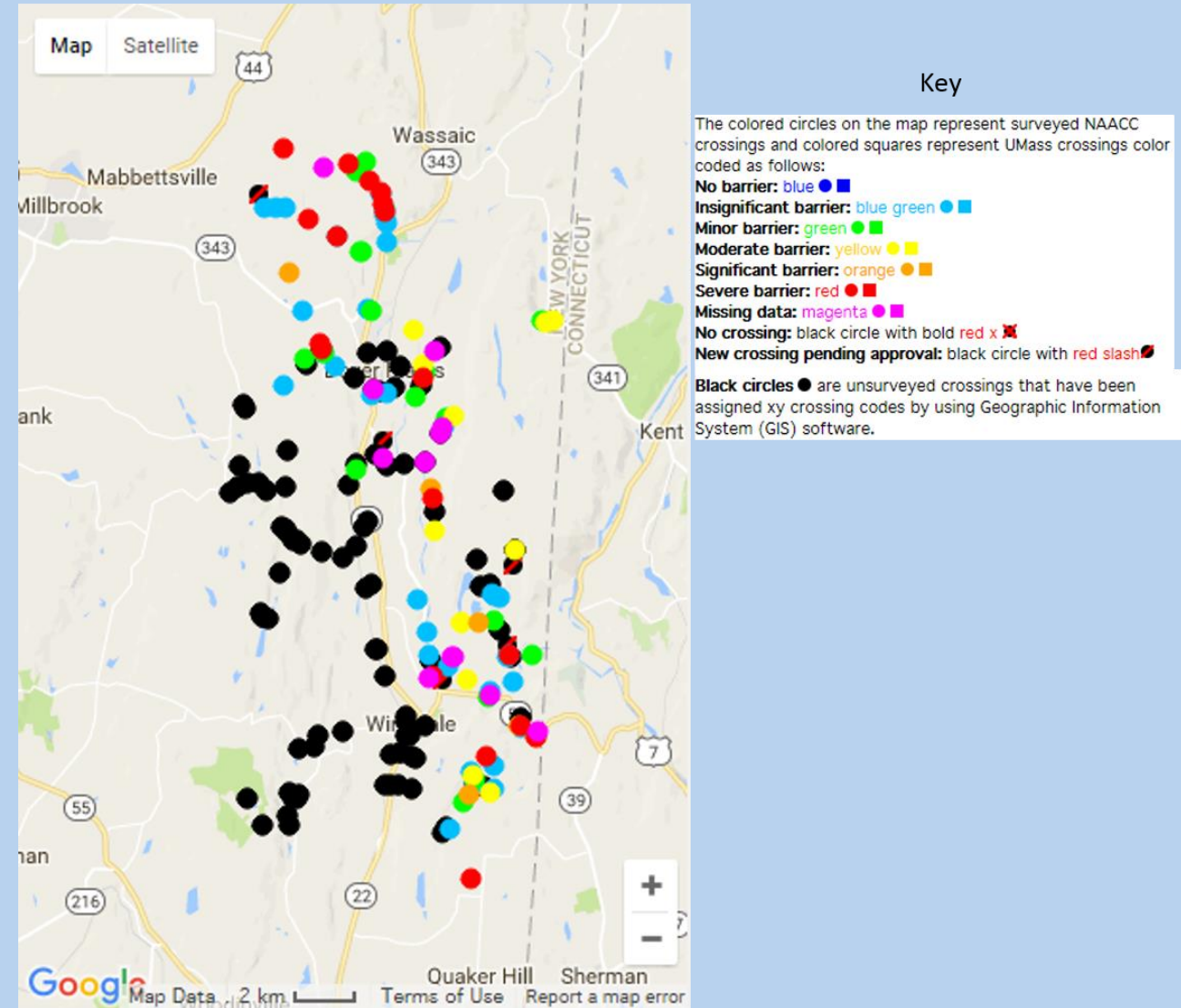
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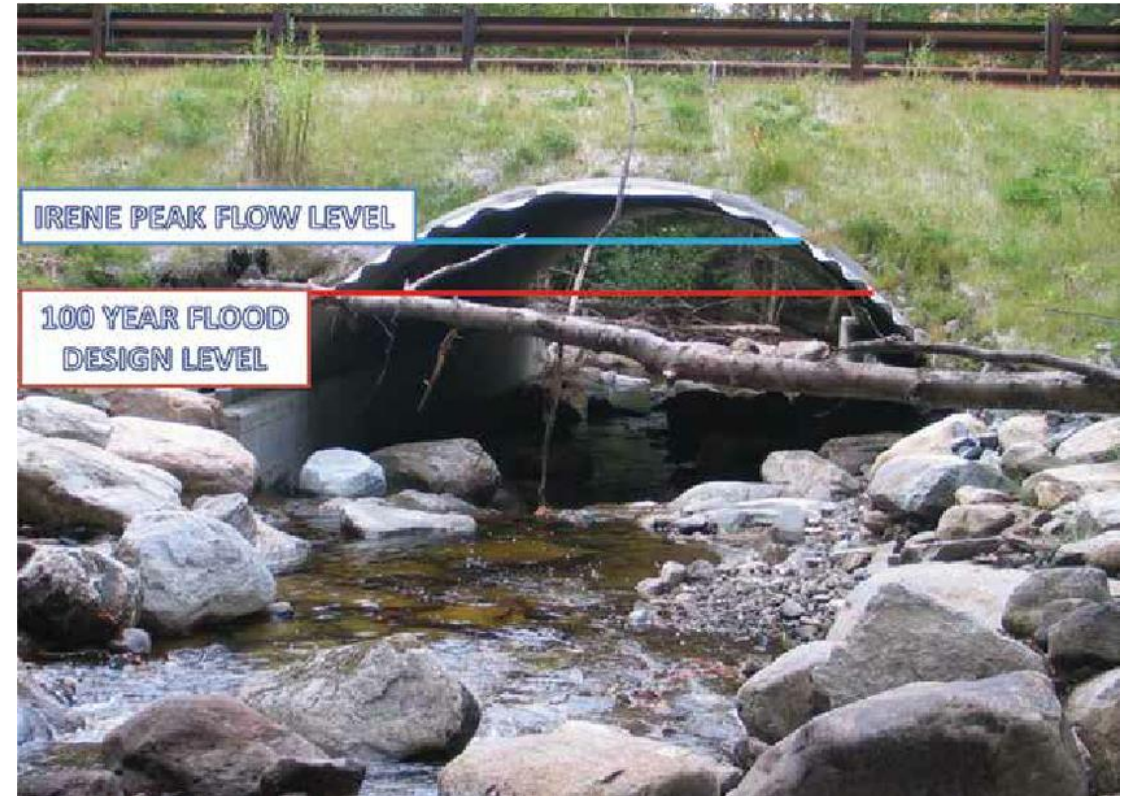
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# Deliverables & Outcomes

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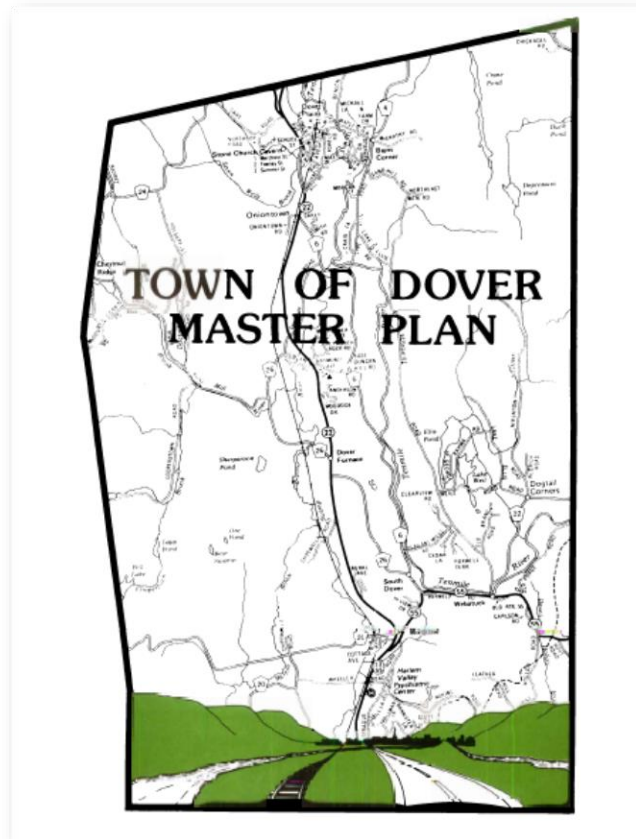
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## 7.3 Review of existing plans, policies and projects to identify climate adaptation strategies, policies or projects that may decrease vulnerability



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### Town of Dover, NY

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# CSRP is a checklist to help identify gaps at the beginning of a planning process

**New York State  
Climate Smart Communities  
Climate Smart Resiliency Planning**



A Planning Evaluation Tool  
for  
New York State Communities  
Version 2.0



Climate Smart Communities is a program of the New York State departments of Environmental Conservation, Health, State and Transportation; State Public Service Commission; and State Energy Research and Development Authority.

October 2014



*water protection*



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Open Space Plan		X			

Slide credit: Libby Zemaitis, NYS DEC HREP

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*water protection*



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Photo credit: Libby Zemaitis, NYS DEC HREP

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# Deliverables & Outcomes

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Strategy feasibility					

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May 16, 2014

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# Questions?

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*New York Watershed Manager*  
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- Mike Jastremeski  
*Watershed Conservation Director*  
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150 Kent Road South  
Cornwall Bridge, CT 06754  
(860) 672-6678, ext. 109

CT office:  
150 Kent Road South  
Cornwall Bridge, CT 06754  
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