CAC/Climate Smart Dover Task Force
Saturday, May 13, 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. Minutes
   A. Accept Minutes of April 8, 2017

   Agenda Items

   3. Congratulations to HVATC- DC Tourism Outdoors Award of Distinction Winner!
   4. Quick Update on CSC Certification Program
   5. Progress of Town Comprehensive Plan Update
   6. Plans in Development for Fall 2017 Climate Change Art Show and Conference
   7. Update on Planning Board Meetings
   8. Natural Resource Inventory Outline Presented by Gretchen Stevens
   9. Attachment for Review: 03_29_17_Climate Smart Communities Presentation by Carolyn Klocker HVA
10. Adjournment

CAC/Climate Smart Dover Task Force
5/13/2017
Accept Minutes of April 8, 2017

Conservation Advisory Council and Climate Smart Dover Task Force
April 8, 2017
Dover Town Hall

Present: Evan van Hook, Stancy DuHamel, Greggory Mendenhall, Janet Pickering, Tamra Roman, Linda French and Katie Palmer-House

Congratulations were given to Stancy DuHamel and the Harlem Valley Appalachian Trail Community on their selection as finalists of a 2017 Dutchess Tourism Outdoors Award of Distinction.

Minutes: A motion was made by Greg Mendenhall, seconded by Tamar Roman, to accept the March 11, 2017 minutes with two minor changes and unanimously approved.

Climate Smart Communities Certification: Katie Palmer-House reported agreements with Hudsonia, Ltd. and Housatonic Valley Association (HVA) for Climate Smart Communities (CSC) grant-related reports would be executed by the end of the month. Linda will forward Carolyn Klocker's PPT presentation on HVA's upcoming CSC-related work on road-stream crossings and reviews of community plans and policies. She mentioned Gretchen Stevens from Hudsonia would contact Evan VanHook to schedule a meeting with the CAC to begin collaborating on the natural resource inventory.

Town-related CAC Informational Updates: Linda French updated members on the progress of the Comprehensive Plan Update Technical Committee's meeting with the Dutchess County Dept. of Planning Commissioner and staff to discuss revised zoning. She reported on Olivet University's RESTORE NY grant, demolition at Cricket Valley Energy Center and efforts of the Great Thicket Refuge to identify additional land in Dover without reducing the property tax base. The Town's Adopt-A-Highway and Community Clean-up event was scheduled for Saturday, April 22nd.

CAC and Town Land Use and Development Projects: Janet Pickering and Tamar Roman reported they had agreed to alternate attending the two monthly Planning Board meetings and circulate notes to CAC members.

Invasive (Plant) Species Treatments in Wingdale: Stancy DuHamel provided background on the NY-NJ Trail Conference's initiative to perform herbicidal treatments to combat an invasive species, Saliva Glutinosa, (aka sticky sage or Jupiter's distaff) on some Wingdale properties that bordered the Appalachian Trail.

Impact of the CAC in Helping Local Businesses: Evan VanHook shared information about a talk he recently gave at the Socially, Ethically, Environmentally Responsible (SEER) Business Strategy Symposium at Pepperdine University. He invited members to view the talk on You Tube at https://youtu.be/dFZE2GmnNRM.

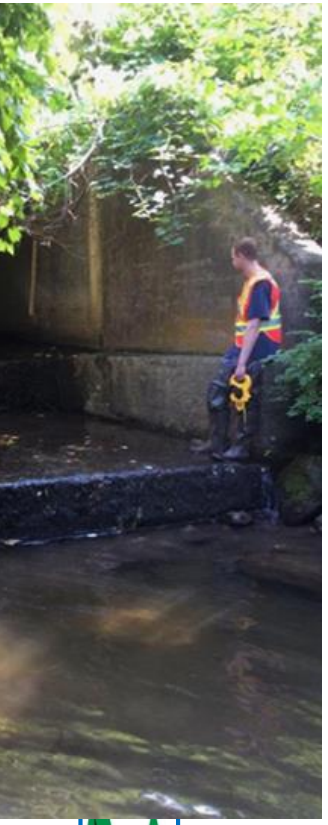
CAC and Community Education about Climate Adaptation Strategies: Members reviewed a list of possible ideas for CAC projects that would achieve outcomes toward CSC certification. After thoughtful discussion, members decided to host a climate change educational seminar or conference with the Dover School District. Evan mentioned the possibility of obtaining a climate change art exhibition to display at school before the conference. Janet and Tamar offered to help implement opportunities for students to participate through multi-media, essays, panels and speakers. Stancy offered to contact the school district to present the idea and invite Asst. High School Principal Kevin Murphy to the next meeting.

The meeting adjourned at 11:30 a.m. The next meeting will be held Saturday, May 13, 2017 at 10 a.m. at Dover Town Hall.

Respectfully submitted,

Katie Palmer-House

CAC/Climate Smart Dover Task Force
5/13/2017
Attachment for Review: 03_29_17_Climate Smart Communities Presentation by Carolyn Klocker HVA



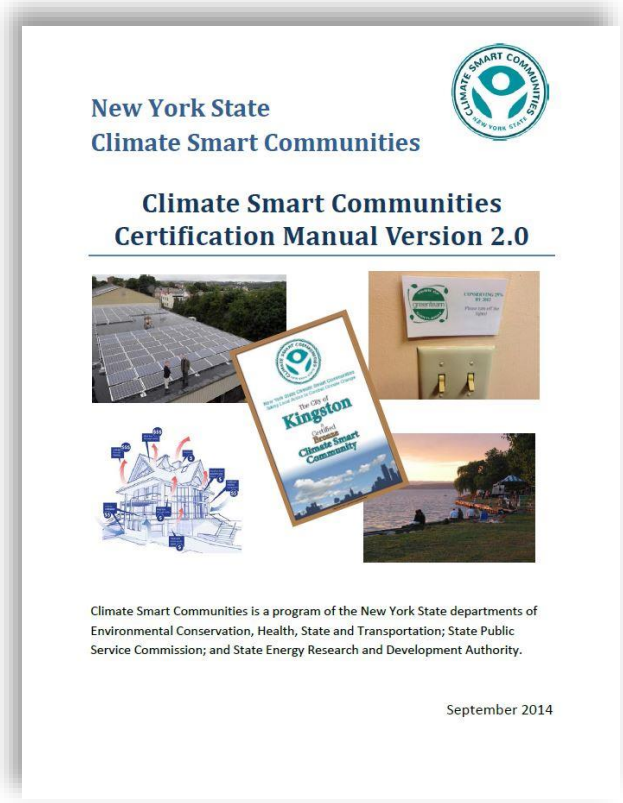
Climate Smart Communities Grant

Dover Town Board Meeting
March 29, 2017

Carolyn Klocker & Mike Jastremski
Housatonic Valley Association

HVA water protection

NYS Climate Smart Communities Certification Program & Grants



HVA water protection

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

Grant Deliverables

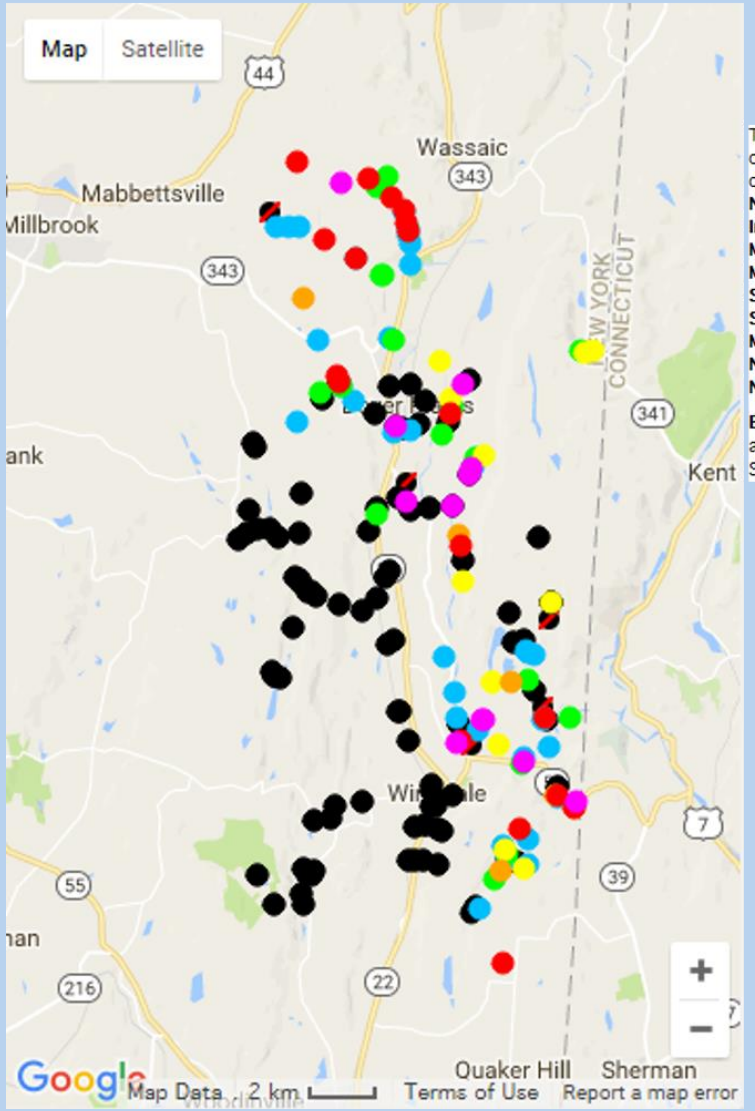
Action Item	Provider
2.1 Develop a government operations GHG emissions inventory*	TBD
2.5 Develop a government operations climate action plan*	TBD
6.17 Conduct a Natural Resource Inventory	Hudsonia Ltd.
7.1 Road Stream Crossing Vulnerability Assessment*	Housatonic Valley Association
7.3 Review existing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

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



Key

The colored circles on the map represent surveyed NAACC crossings and colored squares represent UMass crossings color coded as follows:

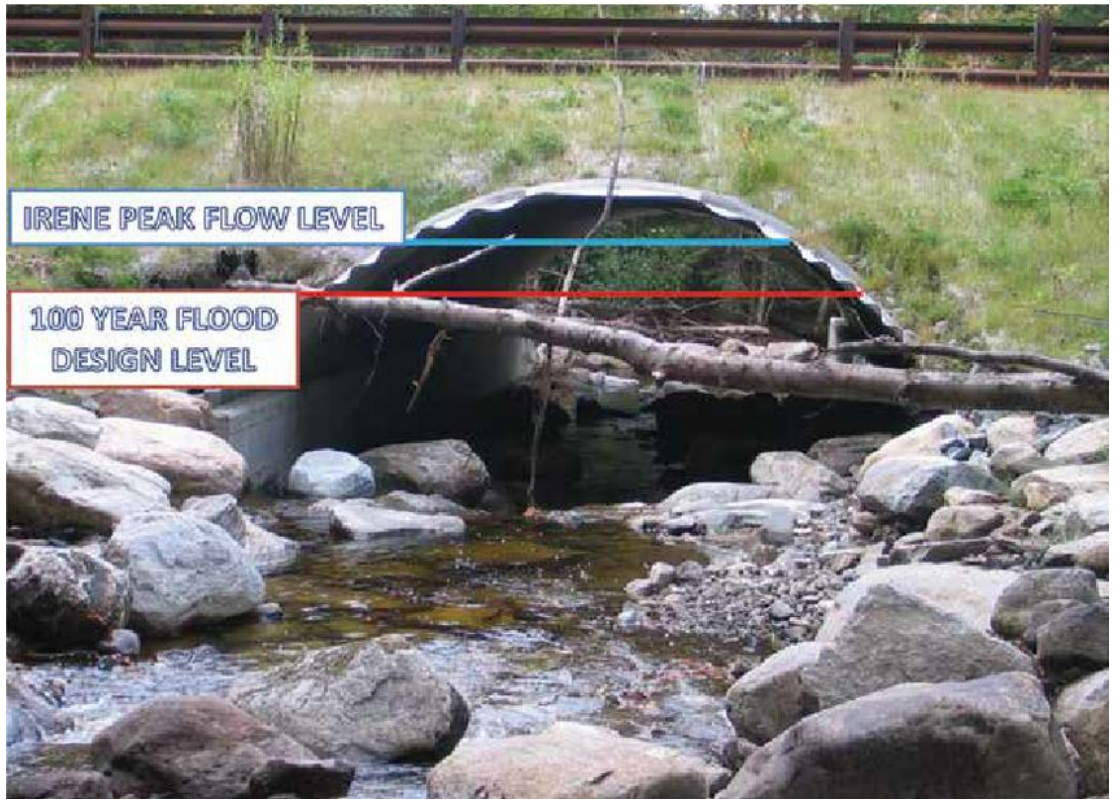
No barrier: blue
Insignificant barrier: blue green
Minor barrier: green
Moderate barrier: yellow
Significant barrier: orange
Severe barrier: red
Missing data: magenta
No crossing: black circle with bold red x
New crossing pending approval: black circle with red slash

Black circles are unsurveyed crossings that have been assigned xy crossing codes by using Geographic Information System (GIS) software.

HVA water protection

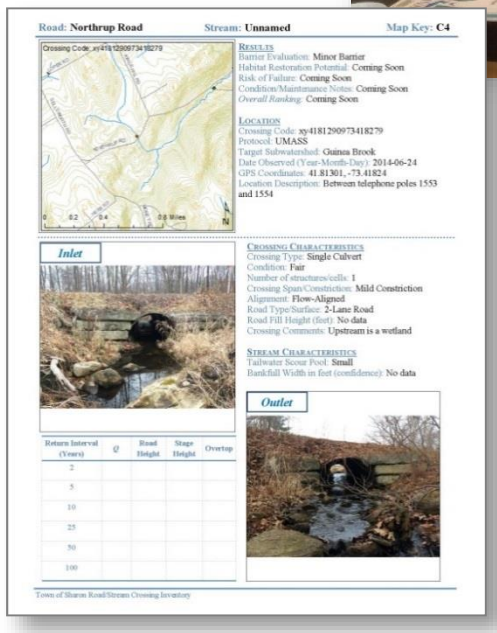
Flood Resiliency Models

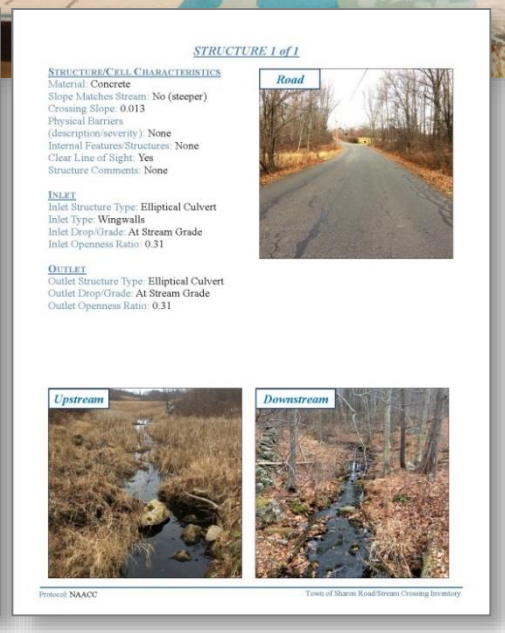
- Characterize future floods and performance of current structures during those floods
  - Determine peak flows for 2-, 5-, 10-, 25-, 50-, and 100-year flood events
  - Calculate each crossings risk of failure for each flood interval



Deliverables & Outcomes

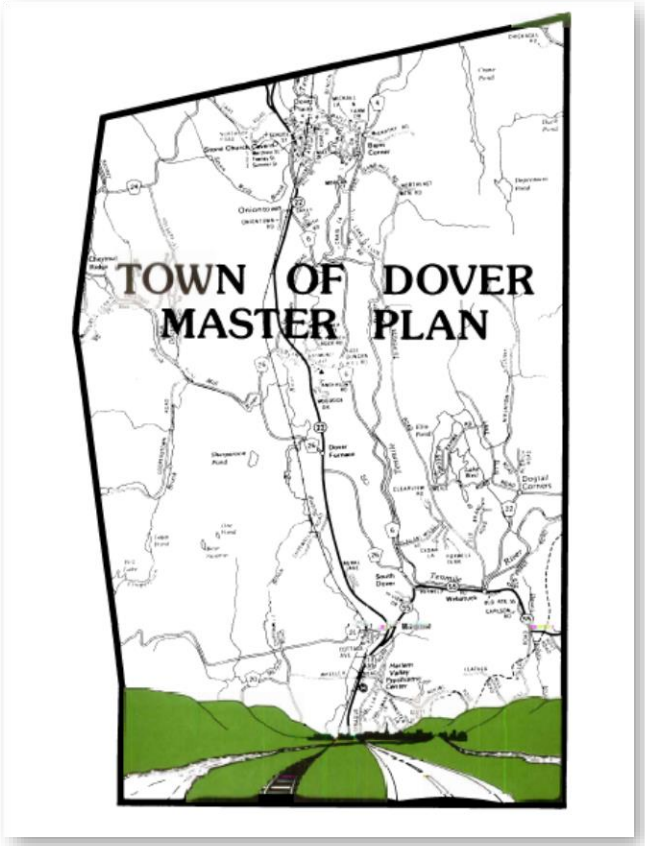
- Town Scale Road Stream Crossing Management Plan
  - Inventory
  - Prioritize
  - Develop Implementation & Replacement Strategies

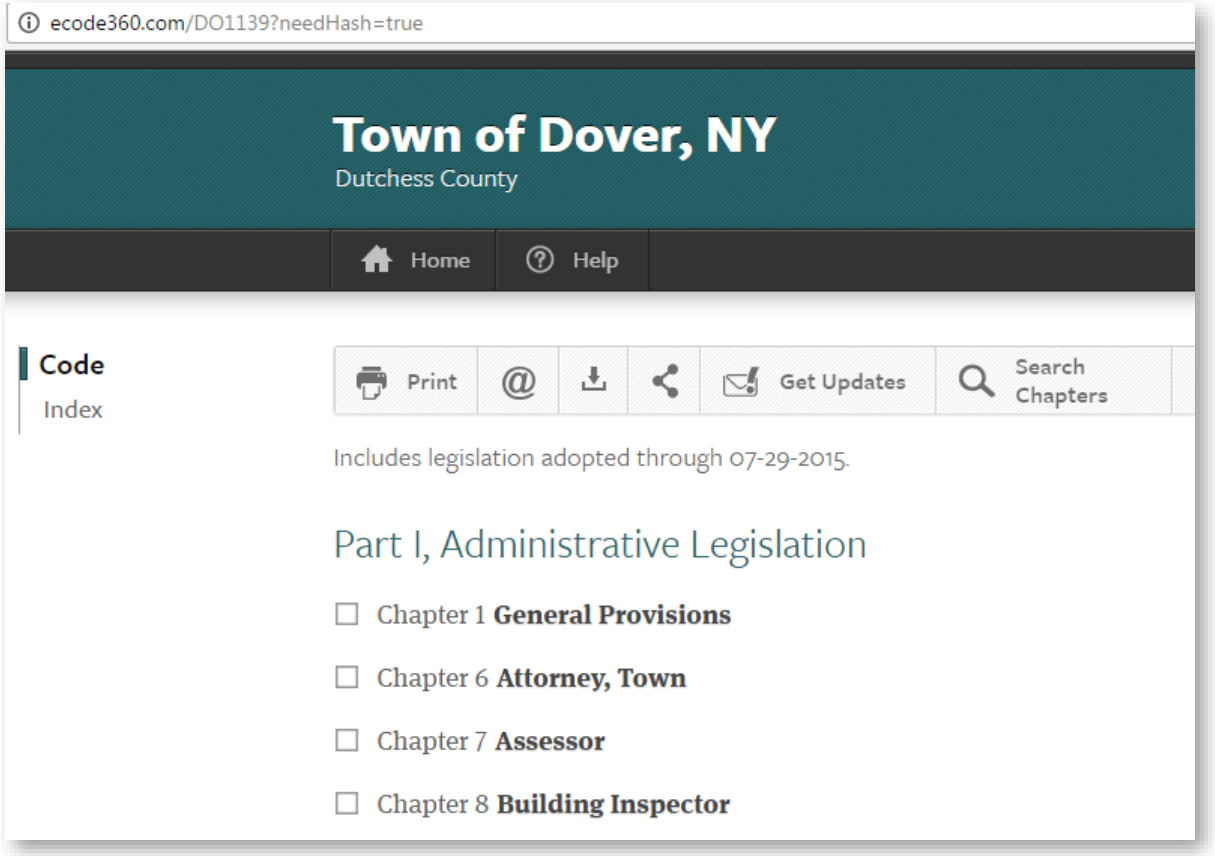




HVA water protection

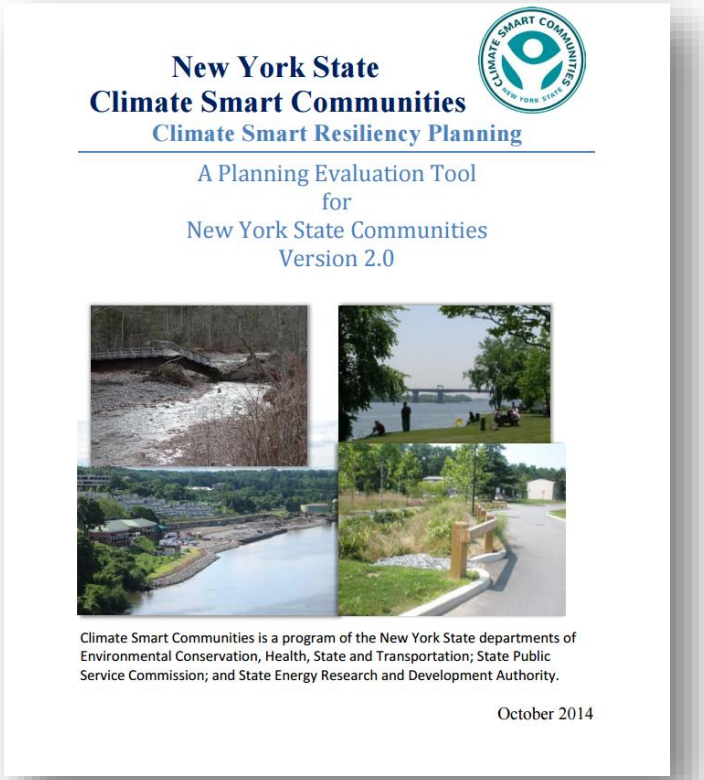
7.3 Review of existing plans, policies and projects to identify climate adaptation strategies, policies or projects that may decrease vulnerability





HVA water protection

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			

HVA water protection

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…

Photo credit: Libby Zemaitis, NYS DEC HREP

HVA water protection

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

HVA water protection

Slide credit: Libby Zemaitis, NYS DEC HREP

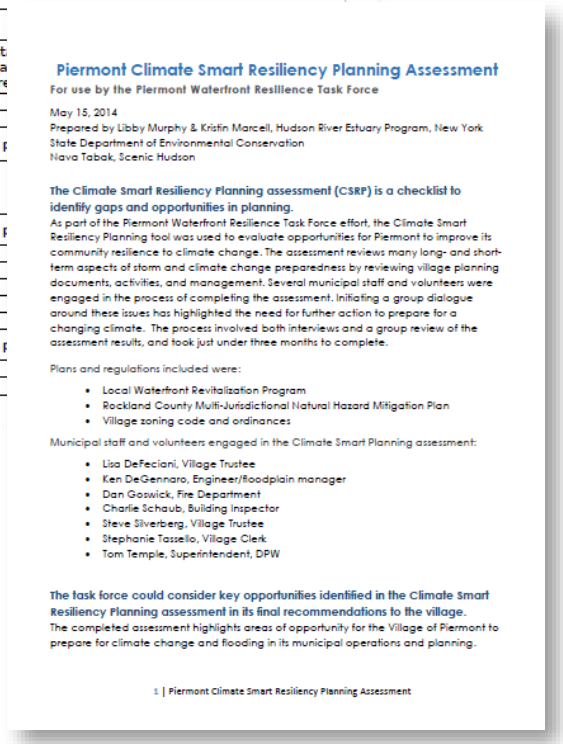
Deliverables & Outcomes

- 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 requires 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 specifica waterfront re
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 p
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 p
Type					
Administration					
Condition					
Timing					
Geography					
1.13 Have adaptation strategies been evaluated and prioritized?			X		Partially- in p
Strategy cost					
Strategy feasibility					



Piermont Climate Smart Resiliency Planning Assessment

For use by the Piermont Waterfront Resilience Task Force

May 15, 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
- Charlie Schaub, Building Inspector
- Steve Silverberg, Village Trustee
- Stephanie Tassello, Village Clerk
- 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.

HVA water protection

Questions?

- Carolyn A Klocker
  New York Watershed Manager
  cklocker.hva@gmail.com

NY office:
35 Furnace Bank Road,
Wassaic, NY 12592
(845) 442-1039, ext. 117

CT office:
150 Kent Road South
Cornwall Bridge, CT 06754
(860) 672-6678, ext. 110

- Mike Jastremeski
  Watershed Conservation Director
  mj.hva@outlook.com

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

HVA water protection