USC Wetlands Program

WETLANDS CONSERVATION ON A WATERSHED SCALE





WHY WETLANDS ARE A TARGET ISSUE FOR USC

- The team developed out of recognition that wetlands were generally not a priority, but were a very important component of the watershed.
- Wetlands are a tool for meeting the nutrient delivery goals of the Chesapeake Bay, but are even more important for their functions and values we see locally.
- Long history of wetland disturbance across the watershed
 - Landscape manipulation to promote other land uses resulted in the drainage of many of our wetlands
 - Many of those impacted areas are no longer active agriculture and wetland areas are partially reverting with drainage features still present
 - Lack of interest in the benefits of wetlands
 - Continued wetland impacts across the region though on a smaller scale

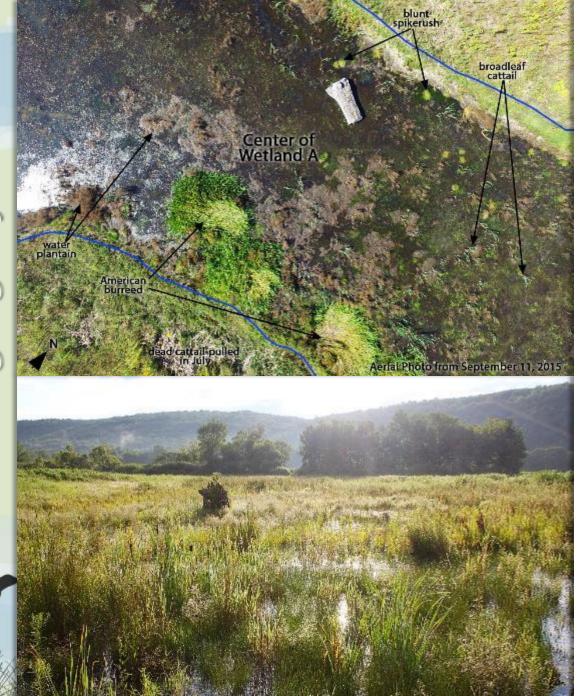


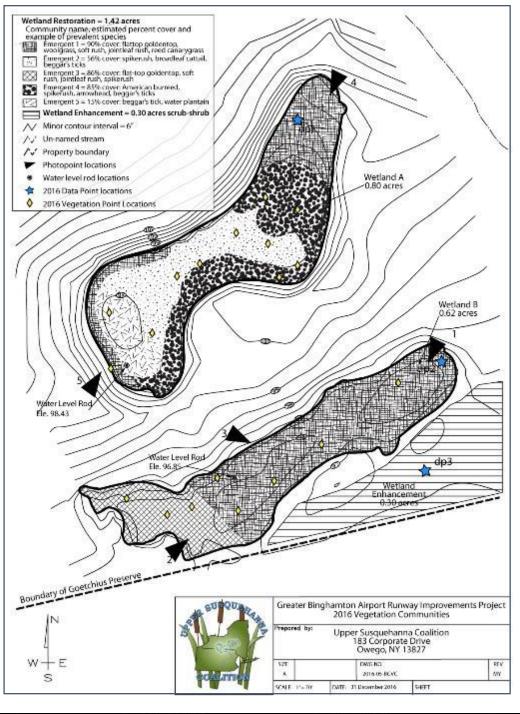
USC WETLAND TEAM

- a centralized team with specialized skills who work on wetland projects throughout the watershed and beyond.
- Skilled equipment operators and an assortment of heavy machinery.
- Project focus flexibility that allows the team to adjust to meet developing needs.
- Partnerships with county and federal agencies, land trusts, and individuals to promote wetlands on every level.

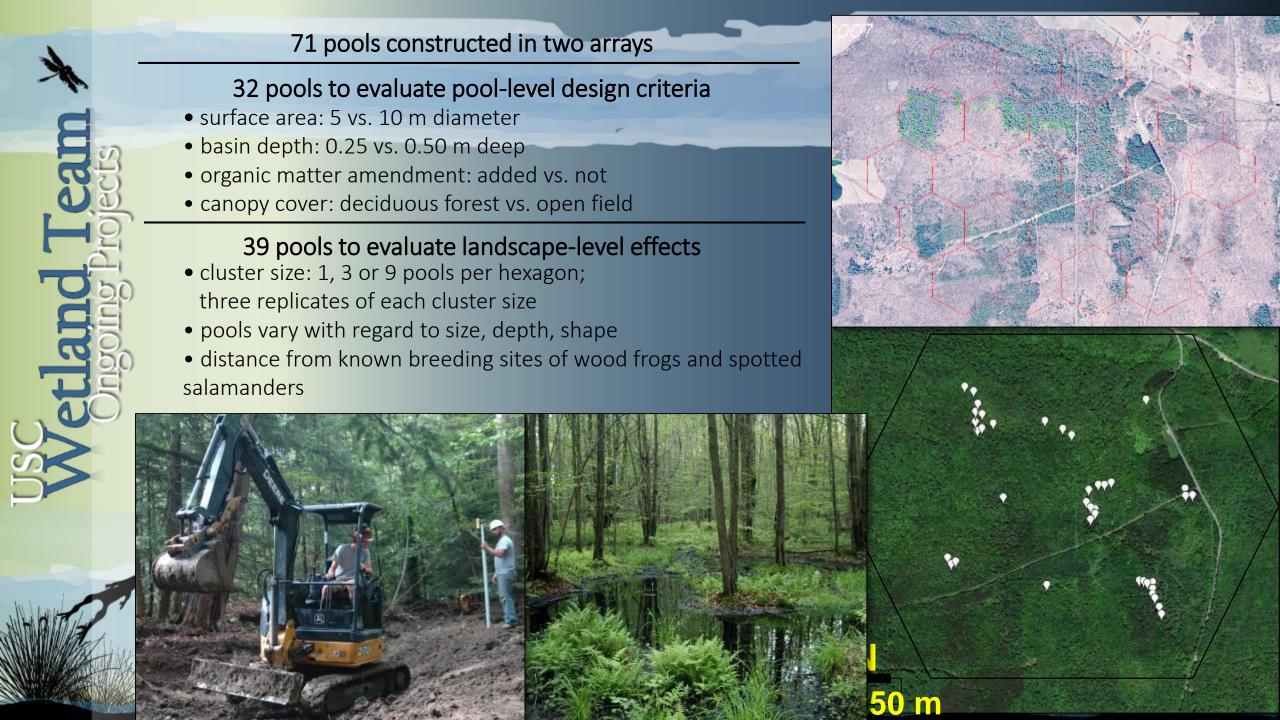












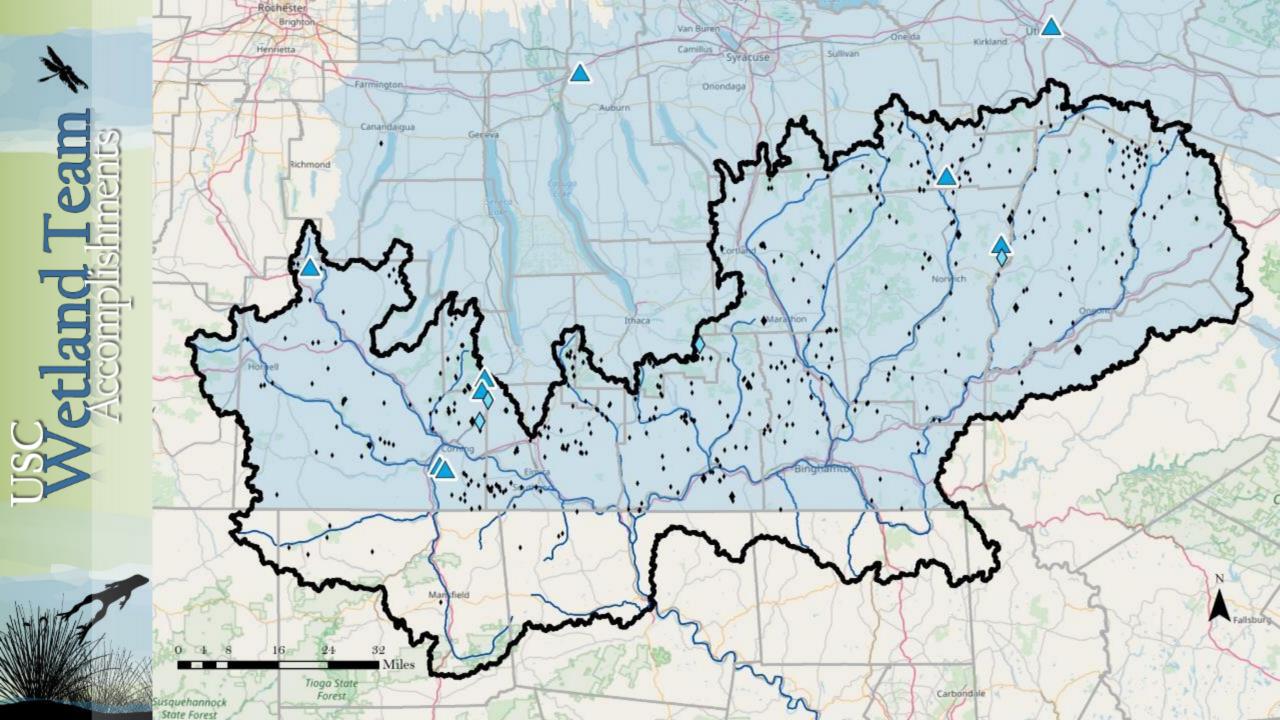


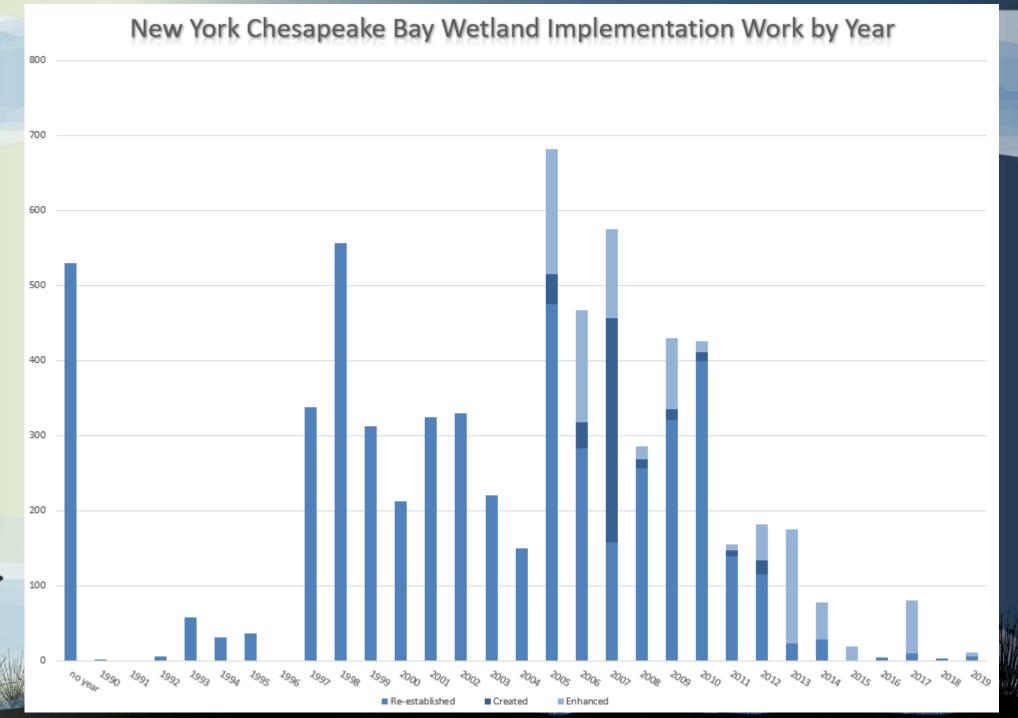


Wetland Program Funding Sources

- **★ USDA NRCS**
- ★ Finger Lakes National Forest
- **★** The Nature Conservancy
- **★** The Wetland Trust
- **★** Ontario SWCD
- **★** Otsego Land Trust
- **★ US EPA**
- **★ NYS DEC**
- **★** EFC
- **★ NYS DOT**
- **★** Millennium Pipeline
- ★ Empire Pipeline
- ★ Broome, Ontario and Madison County Airports

- **★** Congressional Appropriation
- **★ US FWS**
- ★ Chesapeake Bay Alliance
- **★ NY State Committee**
- **★ NAWCA**
- **★ NFWF**
- ★ Chesapeake Bay Program
- ★ Izaak Walton League
- **★** Broome County Landfill
- **★** SUNY ESF



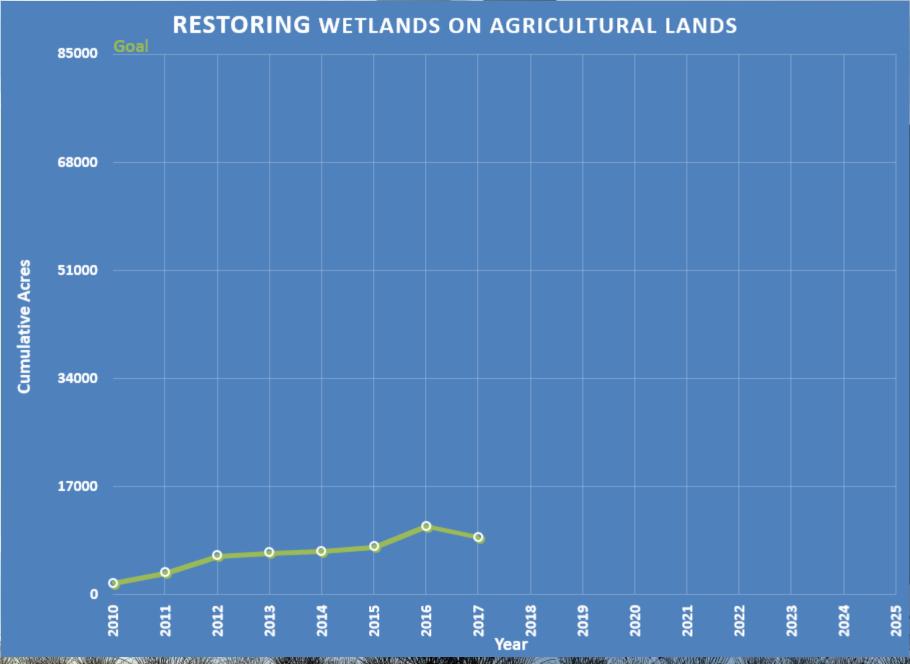




Where have the wetland restoration numbers gone?

- Decrease in available funding
- Decrease in available staffing
- Prioritization of other programs
- Narrowing of the wetland restoration definition
- Permitting constraints

85000 Goal **Cumulative Acres**





Wetland Work as defined by CBP

Wetland Restoration (re-establishment): The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former wetland.

Wetland Rehabilitation: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/historic functions to a degraded wetland.

Wetland Enhancement: The manipulation of the physical, chemical, or biological characteristics of a wetland to heighten, intensify, or improve a specific function(s).

Wetland Creation (establishment): The manipulation of the physical, chemical, or biological characteristics present to develop a wetland that did not previously exist at a site

Of these four categories, restoration and creation are considered acreage gains, which means there is an increase in the total area of wetlands. The other two – rehabilitation and enhancement – are considered functional gains because they do not change the overall acres of wetlands, but they do improve the wetland's function from its current state.



Applicable Land Use Types (or other load sources) Treated by the BMP:

- Agriculture
- Agriculture without Open Space
- Cropland
- Cropland and Hay
- Cropland and Hay Eligible for Manure
- Cropland Eligible for Manure
- Grains not Double Cropped
- Hay
- Leguminous Hay
- Other Hay
- Pasture
- Pasture and Hay
- Row Crops
- Row Crops Eligible for Manure
- Specialty Cropland



Increasing implementation

- Identify and acquire funding
- Supplement federal staffing gaps with local staff
- Education, outreach and networking
- Identifying target sites in each county and focusing outreach efforts
- What else can we do?





Audience Research Social Marketing Recommendations

August-November 2015

Report of Findings







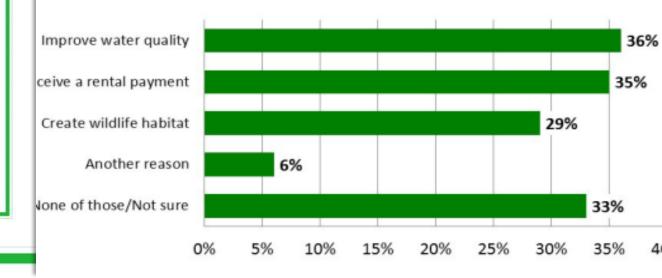




Awareness of Wetlands Programs 40% 40% 60%

"Are you aware of any programs that are meant to help you preserve wet areas on your land, or restore them to natural habitat, through technical or financial assistance? Such programs might be offered by agencies such as the Natural Resources Conservation Service, Farm Service Agency, or your state's Department of Agriculture, or through private grantors such as Ducks Unlimited or the Chesapeake Bay Trust."

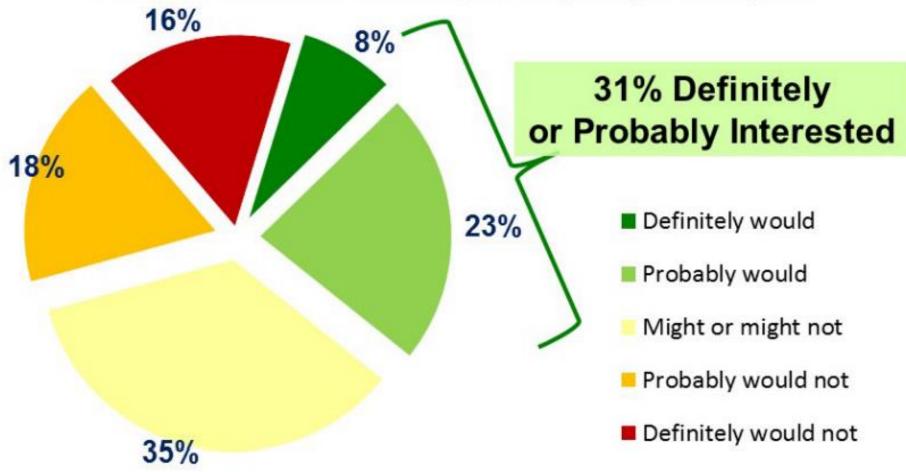
Vhy Landowners Might Consider Wetland





Landowner Interest in Wetlands Program

Asked of Those Not Currently Participating in a Program



"If you were told about a program to help you preserve or restore wet areas on your land as a way of providing wildlife habitat and protecting local streams, and if the program paid enough to cover your costs of participating, without forcing you to give up too much control of what happens on your land, how likely would you be to seriously consider it?"

Mentimeter

What wetland features interest landowners?





How can USC help increase wetland restoration across the watershed?

private starting dialogue w lo search for funding research potential sites implement funding mapssof opportunity areas incentives for acreage outreach help with permitting what is a good site communication boots on the ground rental payments additional benefit money incentives to farm interest groups education local partnerships collaboration no cost share funding boot on the ground benefits