Robert G. Wehle State Park:

What do you do when you're awash in a sea of swallow-wort?

NYS Office of Parks, Recreation, and Historic Preservation

Casey Holzworth – Natural Resource Steward

Edwina Belding – Environmental Analyst

John Shultz – Site Manager

Northeast Natural History Conference April 7th, 2011

Pale Swallow-wort

- Cynanchum rossicum
 - Non-native invasive
 - Milkweed family
 - Twining vine
 - Thousands of feathery seeds

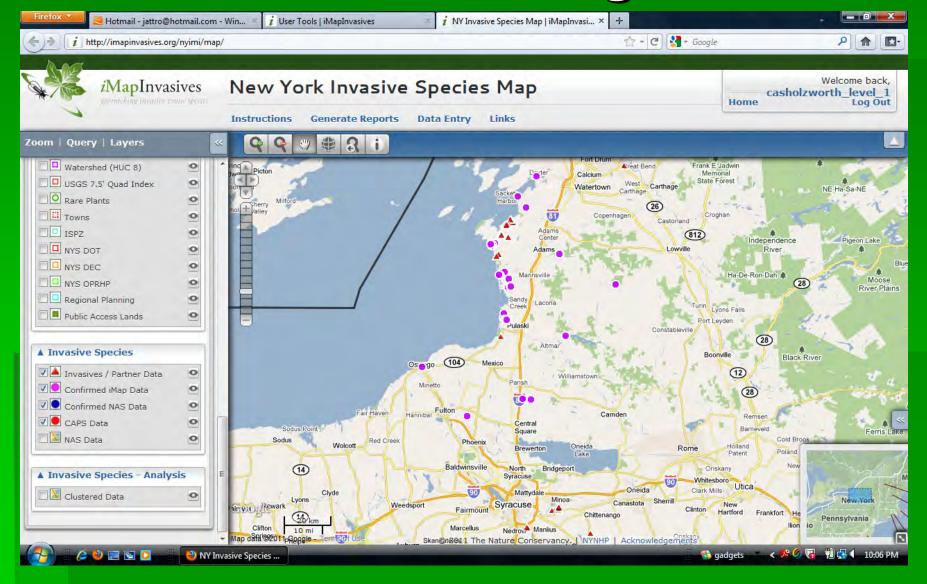


Pale Swallow-wort

- Cynanchum rossicum
 - Densely growing
 - Dense root system
 - Allelopathic



Swallow-wort range

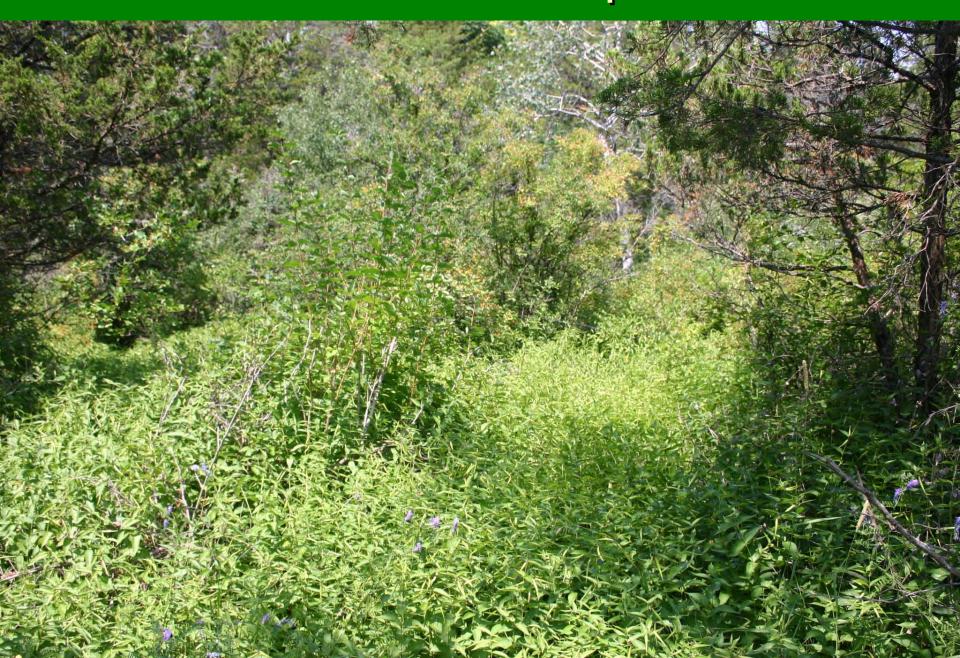


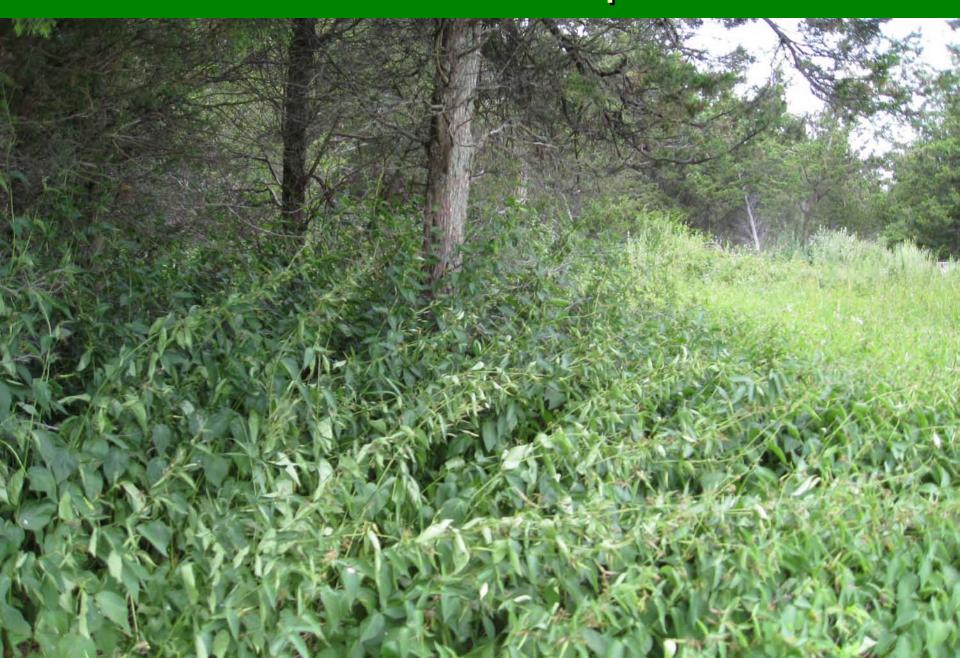
Robert G. Wehle SP

- 1,067 acres
- Former military rifle range
- Former summer home for Mr. Wehle
- Sold to NYS in 1990
- Robert G. Wehle SP created in 2004
 - Upscale cottage rental
 - 3 miles of shoreline
 - Tennis court
 - 16 miles of trails







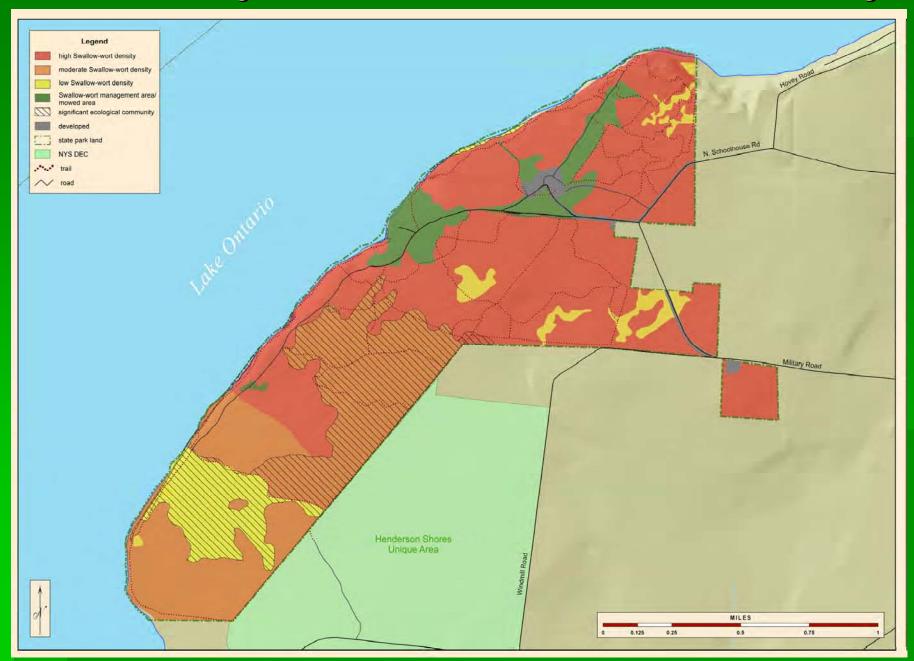




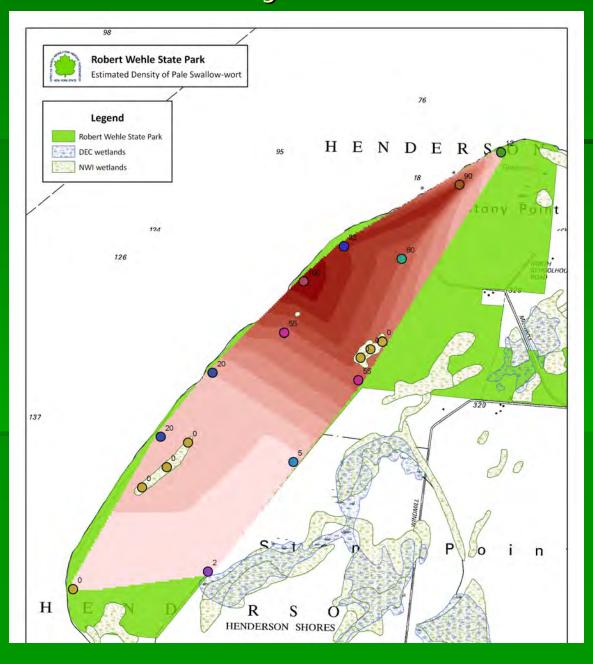
Alvar - Globally Rare



Anecdotally Estimated Swallow-wort Density



Swallow-wort Density GIS Contour Estimate



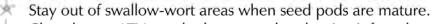
Interpretation/Education

- Pale swallowwort signage at most trailheads
- Informative but not very engaging
- Updates coming

SWALLOW-WORTSPREAD THE WORD...

Mature Seed Pods turn brown and split open in late summer and release thousands of wind borne seeds. Swallow-wort is a very aggressive non-native plant that destroys wildlife habitat. Toxic chemicals in the plant make it unusable by deer and other wildlife.





Clean boots, ATVs, and other gear when leaving infested areas.

Report swallow-wort discoveries to Cornell Cooperative Extension at 788-8450.



..NOT THE WEED!!!



BOOT CLEANING STATION Help keep alien plants from invading your backyard!

This station is designed to help you remove invasive plant seeds before you leave the park.

Please carefully check your clothing and pet's fur and remove any seeds you find

- . Scrape your shoes on the boot brush below
- . Use the hand-held brush to remove any seeds from clothing or pets
- . Ensure that you are not taking any parts of this plant home with you





The seeds are in the pods! Dense areas like Wehle State Park can produce more than 35,000 seeds per square vard!

Swallow-wort is a REAL problem here!

Pale swallow-wort is an invasive plant from Europe that has infested Robert G. Wehle State Park. It destroys native plant and animal habitat and spreads very easily. The adjacent kiosk provides more information on the ecology and destructive nature of pale swallow-wort.





Please brush your shoes before leaving this area.

In late summer swallow-wort seed pods open and the milkweed-like seeds are everywhere. These feathery seeds easily stick to your shoes, clothing and even your pet's fur if your dog walks with you - potentially transporting the seeds wherever you go. Thank you for using this boot cleaning station and doing your part to make sure swallow-wort doesn't get a free ride.



Operations







New York State Office of Parks, Recreation and Historic Preservation

POLICY ON PESTICIDE REDUCTION IN STATE PARKS AND HISTORIC SITES

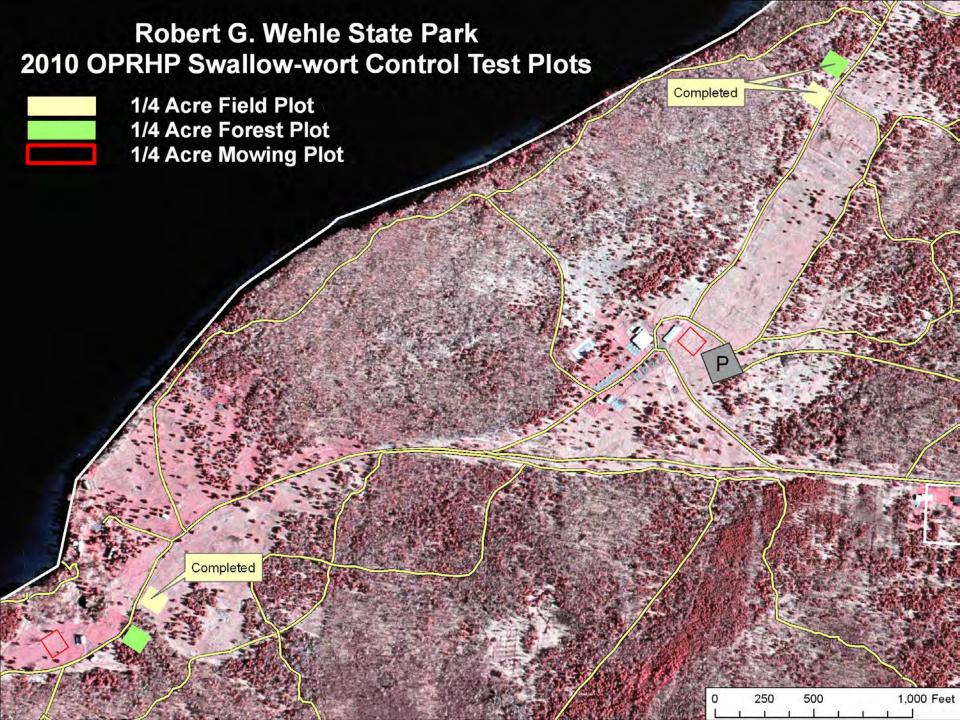
Purpose

As part of the agency's sustainability initiative and our commitment to protecting the health of agency staff, the public, and ecological resources, OPRHP will promote environmentally sensitive pest management by minimizing the use of pesticides in New York State Parks and Historic Sites. Our goal is to eliminate pesticide uses wherever possible. In special instances where pesticide use is required, we will limit our use to least toxic alternatives.

This policy is effective immediately.

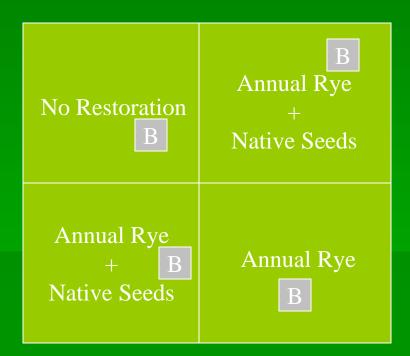
Dated: April 22, 2009

Carol Ash Commissioner



Research Design

- Two conditions
 - Field x 2 and Forest x 2
- Three RestorationOptions
 - Do nothing
 - Annual Rye
 - Annual Rye and Native Seeds
- Secondary RestorationFactor Burn





Additional OPRHP Research

- Use Park History
 - Mowing
 - 5yrs vs. 10yrs vs. 30+ yrs
 - Soil Analysis
 - Swallow-wort root density
 - Native spp. root density
- Greenhouse
 - Roots vs. Nodes
 - Heat vs. No Heat
- Partnership
 - USDA ARS



