



# Hydrilla (*Hydrilla verticillata*) in the Croton River System: 2014 and 2015

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# Croton River

- ~3.25 miles long
- Originates at the New Croton Reservoir
- Variety of Habitats
  - Whitewater
  - Moving Water
  - Standing Water
  - Tidal (exposed sediments)
- Variety of Bottom Substrates
  - muck, sand, cobble, boulder
- Terminates at the Croton Bay
  - Hudson River
- High Use Recreational Area

## CROTON RIVER HYDRILLA DELINEATION PROJECT



# Initial Discovery

- October 19, 2013
- NY Botanical Garden Survey of Rare Plants
- Confirmed by S. Kishbaugh
- Non-rooted fragments and rooted plants observed



# 2014 Results

- **GPS-referenced Point Intercept Survey**
  - Conducted by Allied Biological, Inc.
  - Followed Methods Used at Cayuga Inlet
    - 50 meter grid
    - 2 anchor tosses per site
- **354 Sites in Nine Locations**
- **Hydrilla occurred at 42.3% of the sites surveyed**

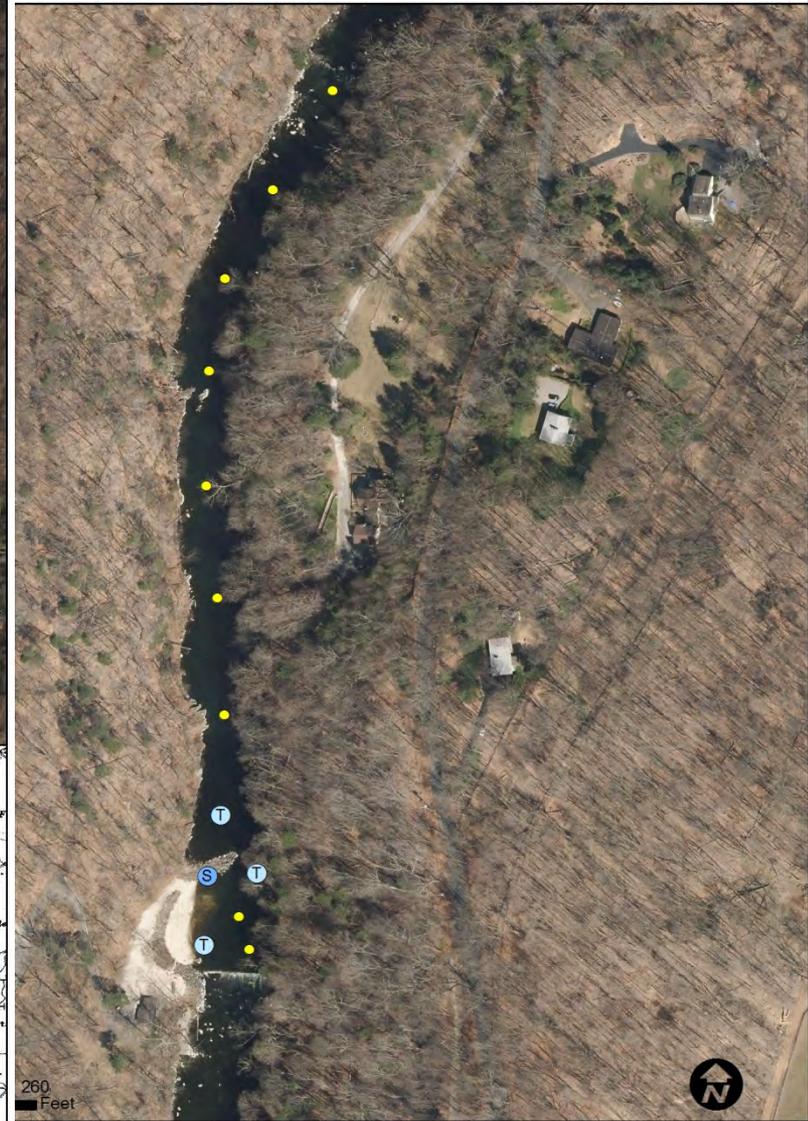
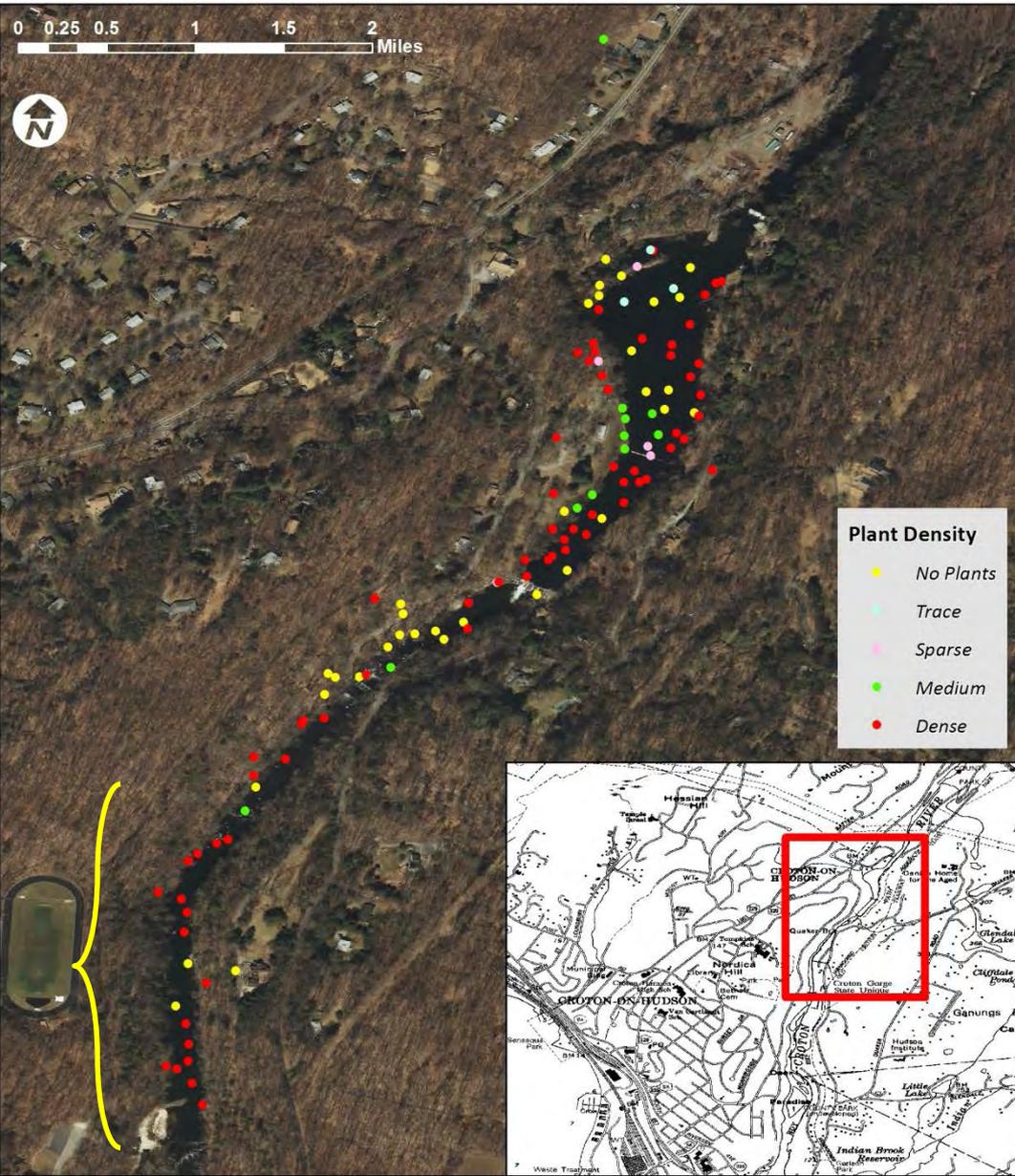
## 2014 HYDRILLA OCCURRENCE IN THE CROTON RIVER

Funding for this project was coordinated through the LH PRISM provided from the Environmental Protection Fund as administered by the New York State Department of Environmental Conservation



# 2015 Hydrilla Distribution and Abundance

## (*verticillata*) Distribution



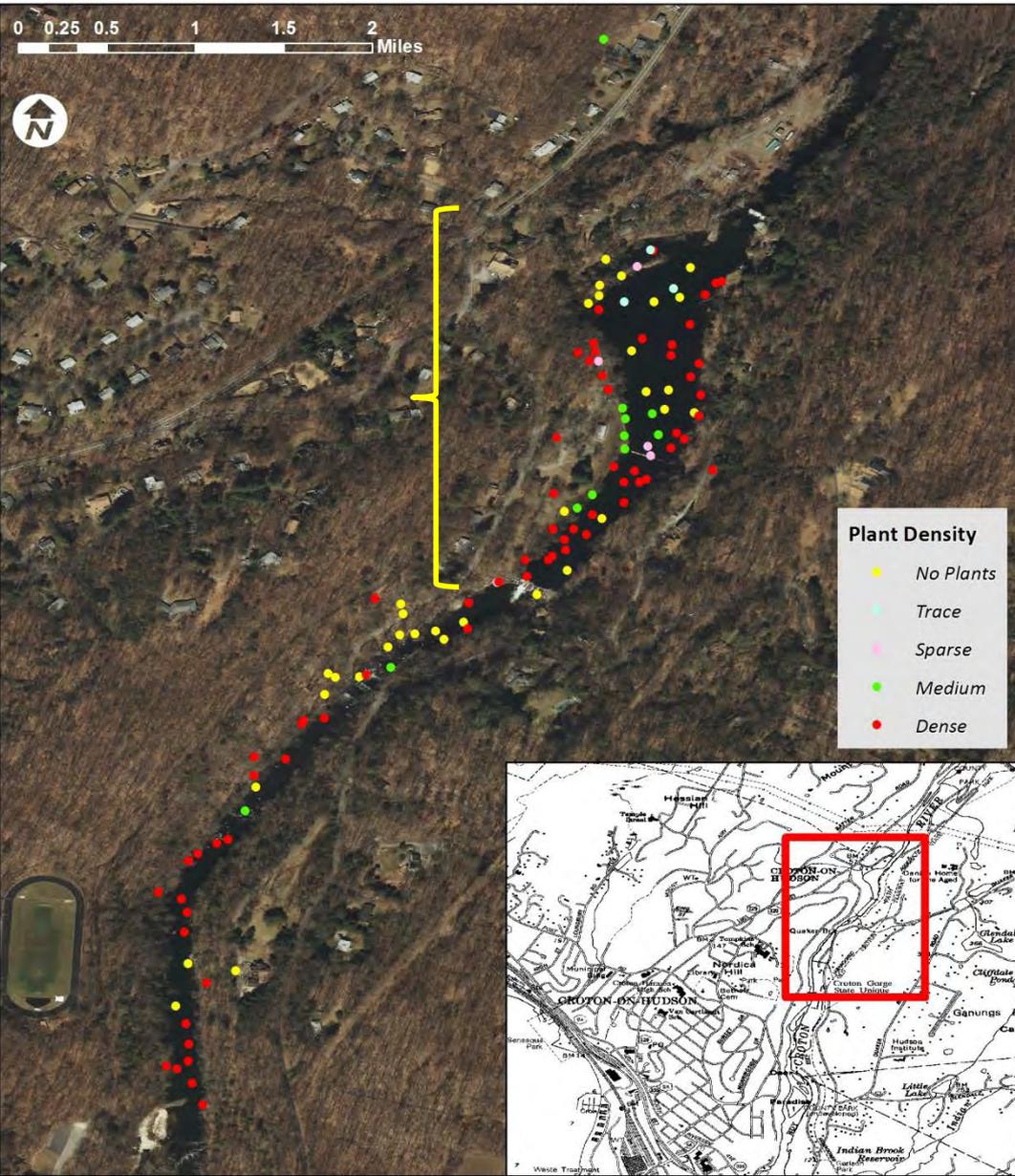
Percent Distribution

Abundance	Sites	Percent
Total	4	31%
Trace	3	75%
Sparse	1	25%
Medium	0	0%
Dense	0	0%

Plant Density

- No Plants
- Trace Plants
- Sparse Plants
- Medium Plants
- Dense Plants

# 2015 Hydrilla Abundance and Distribution



## (*verticillata*) Distribution



Percent Distribution

Abundance	Sites	Percent
Total	18	62%
Trace	8	44%
Sparse	5	28%
Medium	3	17%
Dense	2	11%

Plant Density

- No Plants
- Trace Plants
- Sparse Plants
- Medium Plants
- Dense Plants

**October 30, 2014**



**October 14, 2015**





Looking upstream at Black Rock Park – 10/30/2014

# 2015 Hudson River Sampling Locations

## 46 Locations

- 70 mile stretch of the Hudson River
- Selected by NYSDEC

## Location Size Range:

- 0.7 acres to 639 acres

This Project was funded by and prepared for the Hudson River Estuary Program, New York State Department of Environmental Conservation, with support from the New England Interstate Water Pollution Control Commission

