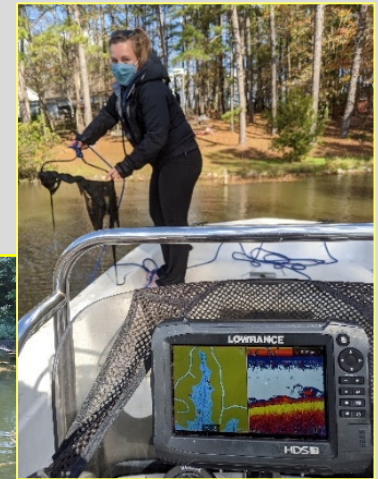


Lyngbya Off Your Boat Dock, Now What?!?

Addressing concerns of potential toxic interactions between lyngbya and those who enjoy Lake Gaston.



Jessica R. Baumann

Aquatic Plant Management Program
North Carolina State University

Background – Gaston APM

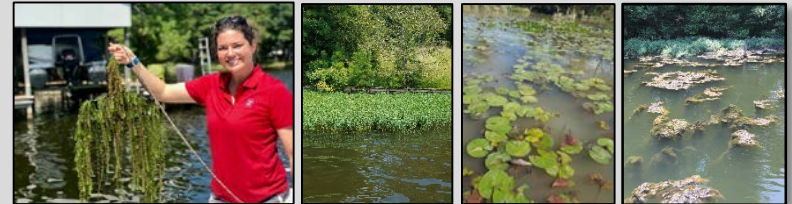
1. Overall Monitoring Efforts

- Vegetation Survey
 - Natives and Noxious
- Water Quality



2. Monitoring & Treatment Efforts

- Hydrilla
- *Lyngbya*



3. Revegetation Efforts

- Native Vegetation Cages



4. Research Efforts - Lyngbya

- Environmental – Impacts to Native Mussels
- Human Health – *Toxin Potential*
- Management – Improving Treatments Effectiveness



Background – Gaston APM

Collaboration Between:

- North Carolina State University
 - Provides expertise, manpower, research
- Lake Gaston Weed Control Council
 - Funding Source
 - Surveys and Monitoring Efforts
 - Treatments
 - Research
- LGA Environmental Committee
 - Volunteer Manpower

NC STATE
UNIVERSITY

Lake Gaston
Weed Control
Council

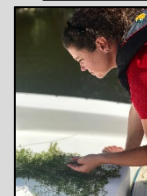
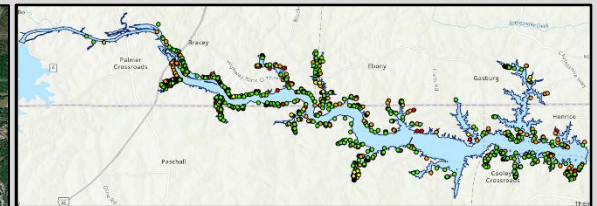
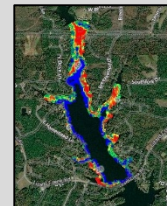
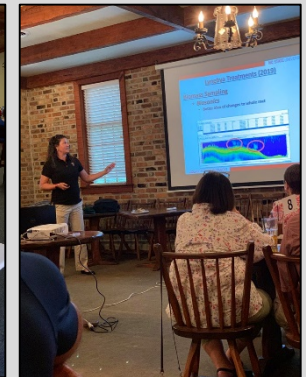
 LAKE GASTON
ASSOCIATION



Background – Extension Associate

NCSU Extension Associate

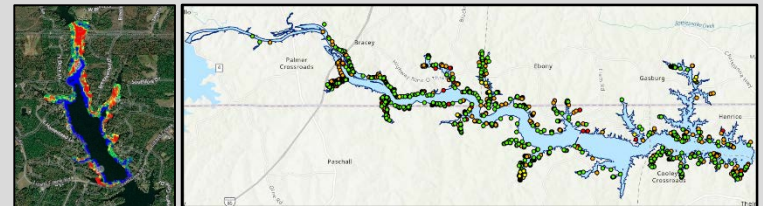
- Position founded in 2012.
- Only known extension position that is assigned exclusively to a single lake.
- Jointly funded by:
 - Lake Gaston Weed Control Council
 - NC Cooperative Extension
 - VA Cooperative Extension



Background – Extension Associate

Job Roles

- **Bridge the gap** between the Lake Gaston community and those that are charged with managing its natural resources.
- **Provide information for the public** on aquatic plant life and management as it relates to the health of the lake.
- **Provide a non-biased, advisory role** for Lake Gaston Weed Control Council management programs.
- **Identify and perform needed research** that will benefit the health and management of Lake Gaston.



Gaston's Noxious Aquatic Species



Lyngbya



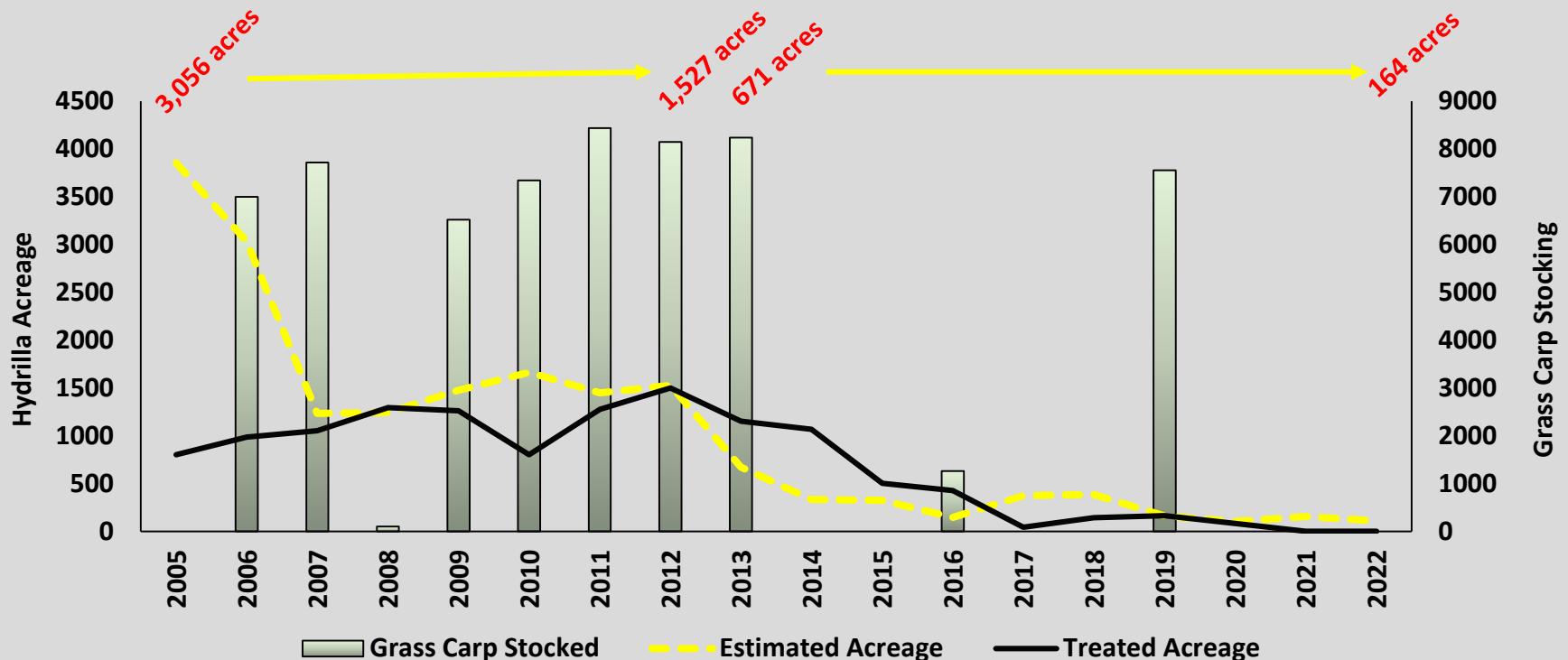
Hydrilla



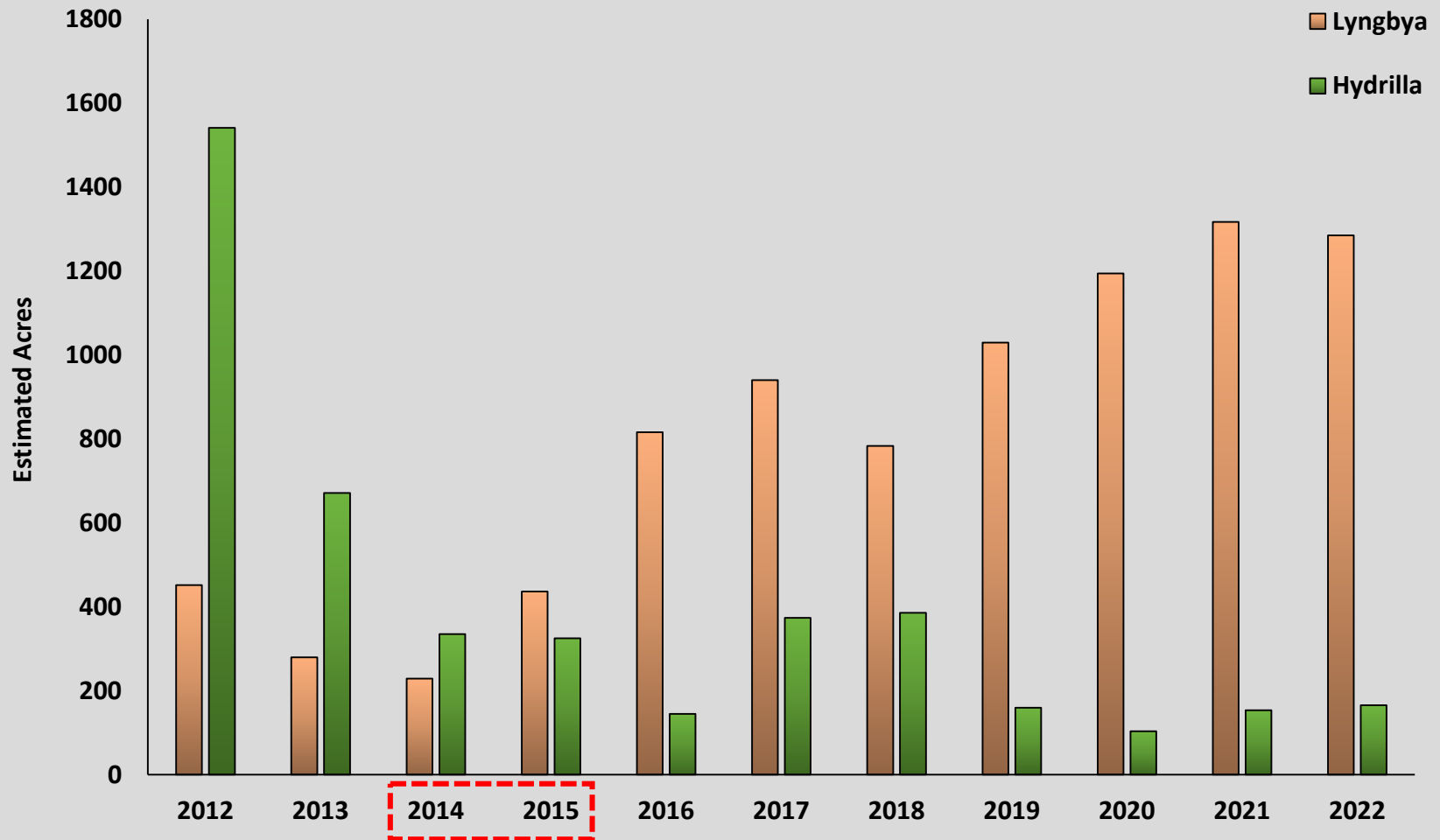
Hydrilla Management

Management History

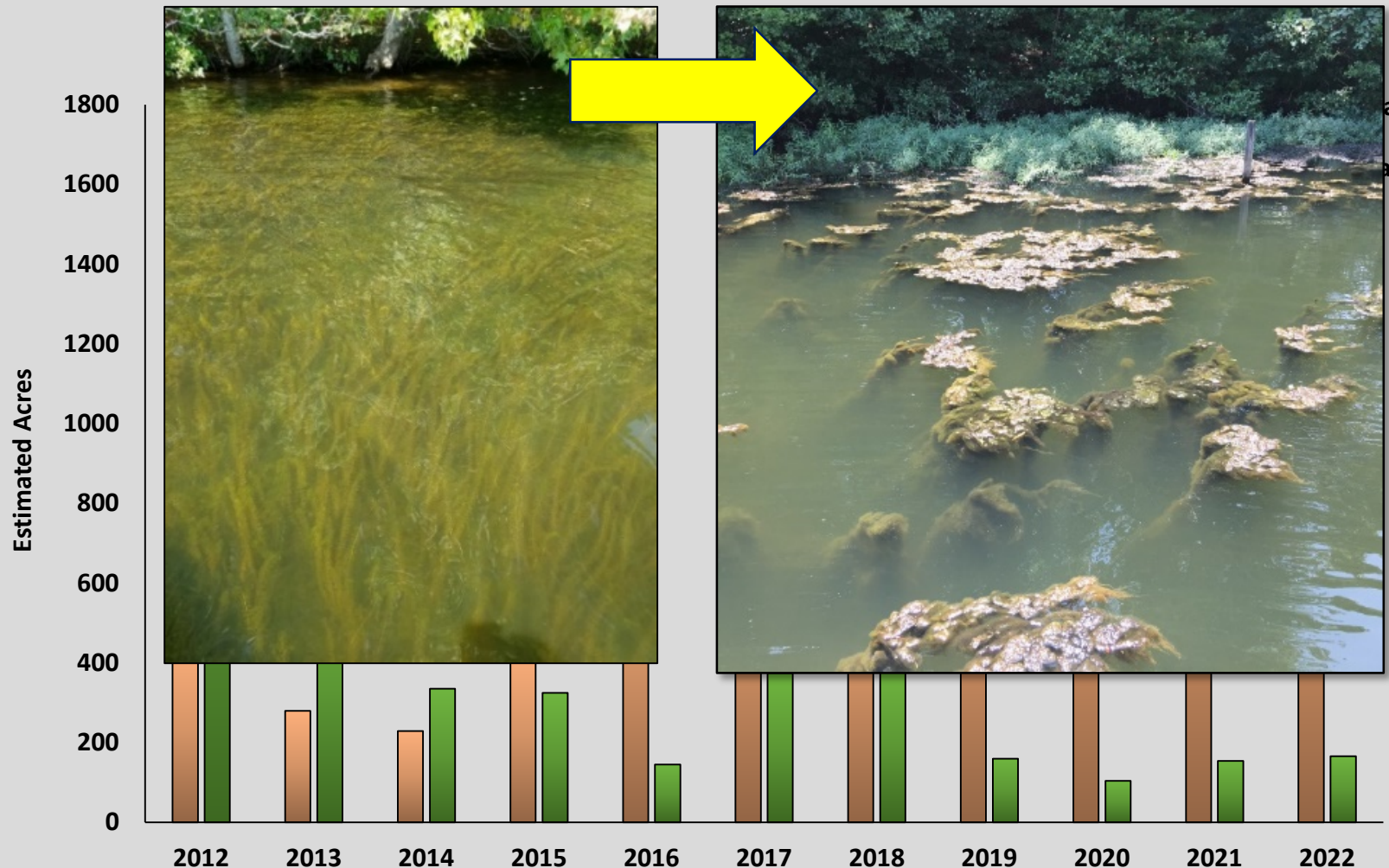
- First documented in 1980's
- Integrated Management – 1995
 - Herbicide + Biological



Gaston Nuisance Species Management



Nuisance Species Management



Lyngbya

