

# Establishing Statewide Water Quality Outcomes and Impacts for UF/IFAS Extension Programs

FOR THE

#GATORGOOD

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# The Problem

## Initiative 2: Enhancing and protecting water quality, quantity and supply.

- ▶ Water Conservation
- ▶ Water Quality
  - ▶ Urban
  - ▶ Agriculture
- ▶ Public Awareness of Water Issues

*Guiding program development, delivery, and impact assessment*

## Estimated Water Savings Potential of Florida-Friendly Landscaping Activities<sup>1</sup>

Mackenzie Boyer and Michael Dukes<sup>2</sup>

# Urban Nutrients: (and many other pollutants)

Multiple Sources

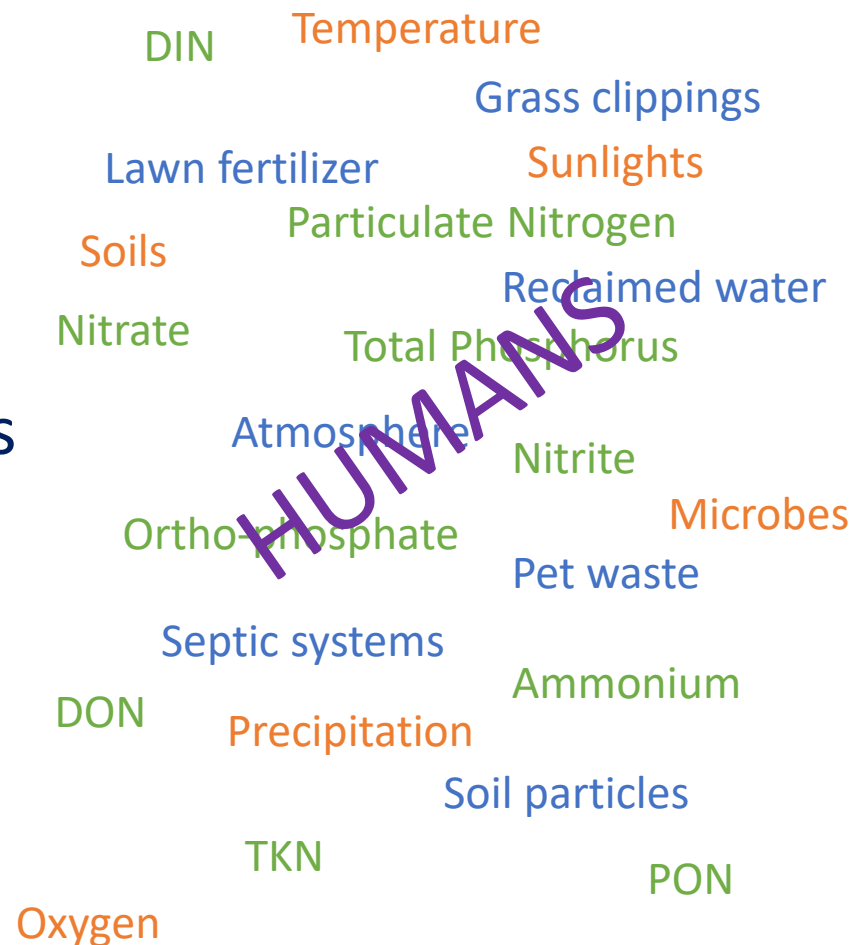
Multiple Forms

Multiple Pathways

Multiple Contributing Factors

Multiple Levels of  
“treatment” by the built  
environment

It's complex!

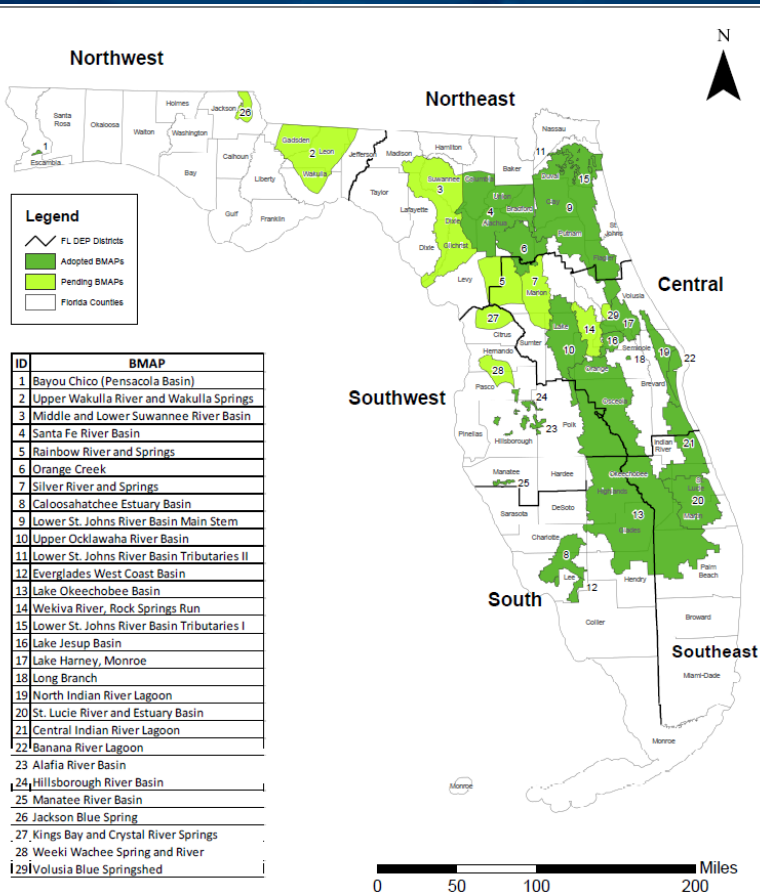


# Part I – A temporary solution

## YEAR 1 – 2017 ROA

5 Agents reported recommended impact in IFAS Workload

Cumulative Impact:  
Contributed reduction of up to  
**15,990 lbs** of nitrogen and  
**1,622 lbs** of phosphorus



Source: Florida Department of Environmental Protection  
Watershed Planning Coordination Section  
(850)245-8555 or Kevin.Coyne@dep.state.fl.us  
<http://www.dep.state.fl.us/watersheds/bmap.htm>



# Part II – Research-based evidence

Enhance the understanding of **source** and **concentration** of nutrient loading from waterfront residential landscapes

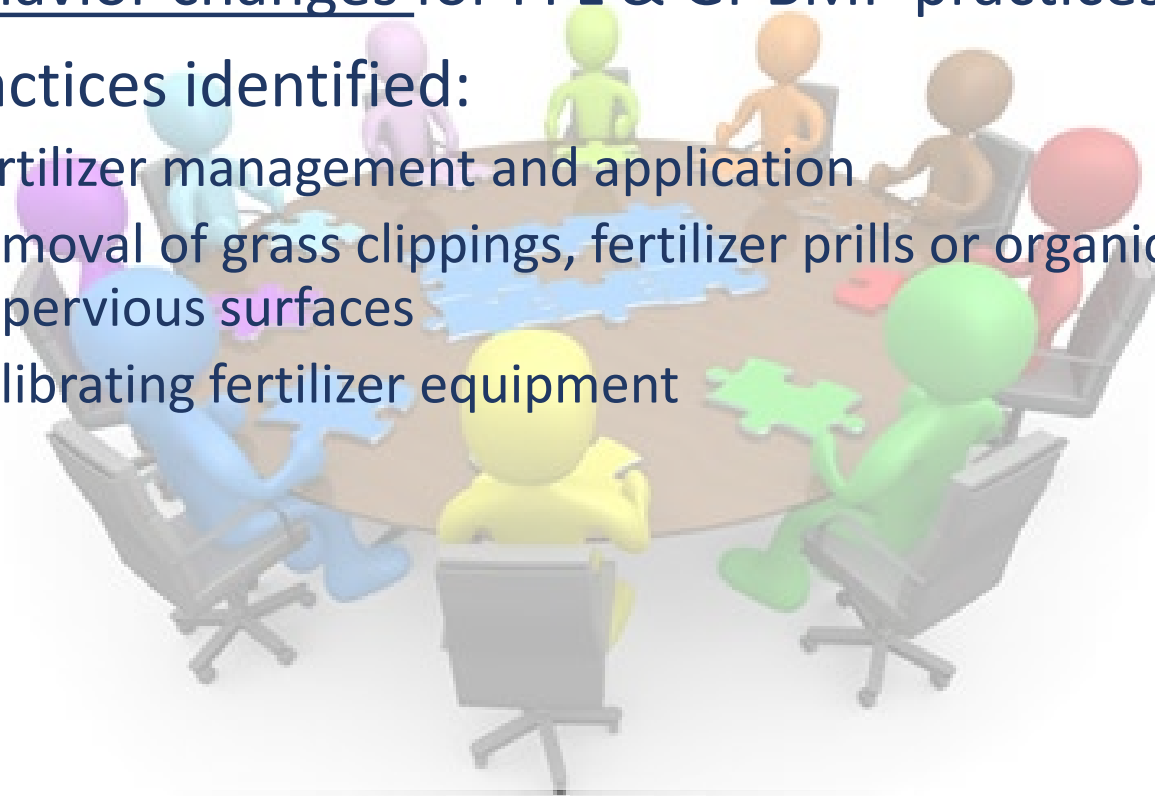


# Part III – Great minds

ROA: Behavior changes for FFL & GI-BMP practices:

Top 3 practices identified:

- Fertilizer management and application
- Removal of grass clippings, fertilizer prills or organics from impervious surfaces
- Calibrating fertilizer equipment



Thank you!

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