BMAPS, BMPs and Cost-Share Opportunities for Producers

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Regional Water Resources Agent
Pecan Field Day
September 13, 2018
What is a BMAP?

A Basin Management Action Plan is a management plan developed for specific water body (spring, river, lake or estuary) that does not meet the water quality standards set by the state (FDEP)

Water bodies in Florida can be impaired by one or more pollutants:

• **Nutrients** (nitrate most common)
• **Bacteria** (*E. coli, Enterococcus* species)
• **Metals** (mercury most common)

The BMAP includes the entire land area that contributes water to the impaired water body – Wakulla BMAP is 1,325 square miles
What is the Goal of the BMAP?

Once a water body is listed as impaired, FDEP sets a **Total Maximum Daily Load** for the pollutant

- The max amount of the pollutant allowed in that water body to meet water quality standards

**BMAP Goal**: Reduce the pollutant load to meet the water quality standards

BMAPs are road maps with lists of projects and action items to reach the TMDL in 20 years

- They are assessed and can be modified every 5 years
BMAPs in Florida

Basin Management Action Plans (BMAPs) in Florida

- **Major Waterbodies**
- **BMAP Boundaries**
- **Counties**
- **Adopted**
- **In Progress**

Source: FDACS
Wakulla Springs BMAP

Figure ES-1. Upper Wakulla River and Wakulla Spring BMAP and PFA boundaries

Source: FDEP
Nitrate loading to the Wakulla BMAP Area by source

Recommended actions for Ag Sector:
Implement Best Management Practices

Figure 2. Loading to groundwater by source in the Upper Wakulla River and Wakulla Spring BMAP area

Source: FDEP
Wakulla BMAP Nitrate Reduction Goal

The total load reduction required to meet the TMDL at the spring vent is 139,564 pounds of nitrogen per year (lb-N/yr). To measure progress towards achieving the necessary load reduction, DEP is establishing the following milestones:

- Initial reduction of 41,869 lb-N/yr (30 %) within 5 years.
- An additional 69,782 lb-N/yr (50 %) within 10 years.
- The remaining 27,913 lb-N/yr (20 %) within 15 years.
- For a total of 139,564 lb-N/yr within 20 years.

Source: FDEP – Wakulla BMAP 2018
Wacissa Springs BMAP

Source: FDEP
Nitrate loading to the Wacissa BMAP Area by source

Recommended actions for Ag Sector:
Implement Best Management Practices

Source: FDEP
How did the 2016 Florida Water Bill change things for Ag?

The Water Bill establishes that BMAPs are enforceable

...and that “management strategies, including BMPs and water quality monitoring are enforceable...

Farmers in a BMAP can choose to either:

1. Enroll in the FDACS BMP program and implement BMPs, or
2. Monitor water quality

It is extremely important for producers to maintain accurate records to show they are implementing BMPs
Who provides financial assistance to implement BMPs?

FDACS
NRCS
Water Management Districts
Mobile Irrigation Labs
To enroll in the BMP program, staff work with producers one-on-one to determine which BMPs apply to the producer’s operation.

BMPs fall under 3 categories:

• **Nutrient Management**
• **Water Resources Protection**
• **Irrigation Management**

Special Fruit and Crop Manual provides a checklist of BMPs for enrollment:

• BMPs must be technically feasible and economically viable for producers.
Once enrolled in the BMP program, producers are eligible for cost-share funds

- FDACS provides up to 75% reimbursement
- Funding is largely, but not exclusively for equipment
  - Precision sprayers, automated irrigation equipment, strip and cover cropping

Contact information:
https://www.freshfromflorida.com/Divisions-Offices/Agricultural-Water-Policy/Organization-Staff

Barron Riddle – Field Technician for Jefferson, Leon, Gadsden, Wakulla Counties
Office: (850) 662 – 3284
Staff work with producers one-on-one to develop a **Conservation Plan** to address an environmental need or concern

- Erosion control, nutrient management, water quality, plant and soil health, wildlife habitat

Conservation plan outlines activities or practices to reach a producer’s objectives

- Once a plan has been signed, producers are eligible to receive financial assistance
USDA-NRCS

Offers technical and financial assistance for farmers through 2 programs:

- EQUIP
- Conservation Stewardship Program (CSP)

Examples of funded practices:

- **Invasive species control**: Kudzu, Cogon Grass, Japanese Climbing Fern
- **Cover crops between overhead rows**: 10 ft. strips between tree rows
- **Irrigation**: overhead, microirrigation
- **Increasing pollinator habitat**
Applications are accepted year-round, with batching deadline **October 15, 2018**

**Contact information**

NRCS Local Service Centers Directory for Florida:
https://www.nrcs.usda.gov/wps/portal/nrcs/main/fl/contact/local/

**Monticello Service Center** (Jefferson, Leon and Wakulla):
Stephen Tullar, District Conservationist
(850) 997-2072 Ext 3
Water Management Districts

Suwannee River WMD
• Cost-share focused on nutrient and irrigation management, and dairy waste
(386) 362-1001

Northwest Florida WMD
• Cost-share focused on nutrient and irrigation management in Jackson Blue Springs Basin
(850) 539-5999
Mobile Irrigation Labs (MIL)

Free service to help producers increase irrigation efficiency by evaluating irrigation systems and their operation

- **Northwest Florida MIL**
  (850) 482-0388
- **Natural Resource Conservation Partners MIL (Suwannee Basin)**
  (850) 766-0736

Funded by FDACS, NRCS and Water Management Districts
Thank You!

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