Best Management Practices
Program Update

Florida Department of Agriculture and Consumer Services
(FDACS)
Office of Agricultural Water Policy
Florida Agriculture Overview

- Florida’s second largest industry
- Approximately 9.5 million acres – more than ¼ of the state; less than 20% irrigated
- Nearly 50,000 farms, about half of which are the primary occupation of the owner
- Annual economic impact: $120 billion dollars; ~$8 billion value of products sold
- Supports 2 million jobs
# Florida Department of Agriculture & Consumer Services

## 18 Divisions and Offices

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<th>Agricultural Law Enforcement</th>
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http://www.freshfromflorida.com/Divisions-Offices/
Office and Program Changes

• Reorganized OAWP with 2 Deputy Directors
  o Ray Scott: water supply planning and BMAPs
  o Stan Posey: program development; BMPs, IA, research, support

• Structured to emphasize consistent staff relationships with producers from enrollment through implementation

• Statutory changes and directives – Chapter 2016-1, Laws of Florida
  o Formalizes the Implementation Assurance program, with rulemaking
  o Makes BMAPs and BMPs enforceable
  o Requires annual and other reports
  o Adds staff and money for projects, cost-share ($28M FY16-17), & research

• Significant programmatic changes
  o Landowner responsibility and accountability
  o Fully electronic data management
  o Technology drivers in cost-share and research
Agricultural BMP Overview

• Practical measures that use water more efficiently and reduce potential effects of fertilizers, pesticides, and animal waste on water resources; must be economically and technically feasible for producers to implement

• BMPs developed in collaboration with agricultural industry, agencies, non-governmental organizations, and others; verified effective by DEP; adopted by rule; subject to periodic review and update

• Supported by cost-share programs from FDACS and others

• Implementation secures a presumption of compliance with state water quality standards
Practice Categories:

- Irrigation Management
- Nutrient Management
- Water Resource Protection
## Best Management Practices Manuals

<table>
<thead>
<tr>
<th>Manual</th>
<th>Adoption</th>
<th>Rule Reference</th>
<th>Next Review</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cow/Calf</td>
<td>2009</td>
<td>5M-11</td>
<td>2016</td>
</tr>
<tr>
<td>Sod</td>
<td>2008</td>
<td>5M-9</td>
<td>2016</td>
</tr>
<tr>
<td>Specialty Fruit &amp; Nut</td>
<td>2011</td>
<td>5M-13</td>
<td>2017</td>
</tr>
<tr>
<td>Equine</td>
<td>2012</td>
<td>5M-14</td>
<td>2017</td>
</tr>
<tr>
<td>Citrus</td>
<td>2013</td>
<td>5M-16</td>
<td>2018</td>
</tr>
<tr>
<td>Nursery</td>
<td>2014</td>
<td>5M-6</td>
<td>2018</td>
</tr>
<tr>
<td>Vegetable &amp; Agronomic Crops</td>
<td>2015</td>
<td>5M-8</td>
<td>2020</td>
</tr>
<tr>
<td>Dairies</td>
<td>2016</td>
<td>5M-17</td>
<td>2021</td>
</tr>
<tr>
<td>Poultry</td>
<td>2016</td>
<td>5M-19</td>
<td>2021</td>
</tr>
</tbody>
</table>
Statewide BMP Enrollment

- 9 BMP Manuals
- Excluding forestry, ~8,500 enrollments covering over 50% of ag land
- 33,000+ Discrete Parcels

**FDACS BMP Enrollment, Statewide, 3/31/2016**

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Total NOI Acres</th>
<th># of NOIs</th>
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</thead>
<tbody>
<tr>
<td>Citrus</td>
<td>568,802</td>
<td>3,327</td>
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<tr>
<td>Cow/Calf</td>
<td>2,648,883</td>
<td>1,798</td>
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<tr>
<td>Dairy</td>
<td>41,231</td>
<td>25</td>
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<tr>
<td>Equine</td>
<td>5,767</td>
<td>101</td>
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<tr>
<td>Fruit/Nut</td>
<td>12,570</td>
<td>364</td>
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<tr>
<td>Mixed Use</td>
<td>101,075</td>
<td>3</td>
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<tr>
<td>Nursery</td>
<td>38,036</td>
<td>1,321</td>
</tr>
<tr>
<td>Row/Field Crop</td>
<td>1,349,552</td>
<td>1,812</td>
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<tr>
<td>Sod</td>
<td>64,341</td>
<td>71</td>
</tr>
<tr>
<td>Wildlife</td>
<td>20,393</td>
<td>2</td>
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<tr>
<td><strong>Sub Total</strong></td>
<td><strong>4,850,651</strong></td>
<td><strong>8,824</strong></td>
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<tr>
<td>Forestry</td>
<td>4,879,169</td>
<td>448</td>
</tr>
<tr>
<td>Forestry - Wildlife</td>
<td>1,540,123</td>
<td>27</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>11,268,943</strong></td>
<td><strong>9,299</strong></td>
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**OAWP BMP Enrollment, March 2016**

- Major Lakes & Rivers
- Public/Managed/Tribal Lands
- Urban Areas (2007)
- County Boundaries
- Dairy
- Equine
- Fruit/Nut
- Mixed Use
- Nursery
- Row/Field Crop
- Sod
- Wildlife
- Land in FFS BMPs

* Florida Forest Service Data

Disclaimer: This map information represents an estimate of the amount and/or location of acreage enrolled in FDACS BMP programs for specific commodities and/or regions of the state. It is educational and does not otherwise affect the interests of any persons, including any vested rights or existing uses of any property. The accuracy and reliability of this map information are not guaranteed, and are affected by continuous changes in land use, crop production, and other socioeconomic factors. Data current as of March 31, 2016.

Florida Department of Agriculture and Consumer Services
Basin Management Action Plans

- BMP enrollment activity concentrated in BMAP areas
- Sets expectation for BMP implementation for agriculture in these areas
- Focuses implementation assurance efforts
- Periodic reporting on enrollment and implementation for BMAP updates
Implementation Assurance Program

• Follow-up program after best management practices (BMP) enrollment; builds on existing IA program

• Primary purposes:
  o Document implementation of BMPs
  o Produce meaningful reports on implementation extent and progress, particularly in BMAP areas
  o Provide the basis for determination of implementation status
  o Inform research priorities, opportunities for technical assistance, cost-share focal points, and the BMP review/revision process
Implementation Assurance Program Development

- Standardized data collection on a set of common practices and practice groups found in all manuals; new data management system with producer and landowner information
- Periodic surveys and self-certifications – all electronic submission
- Prioritized FDACS site visits for confirmation and assistance
- Multiple opportunities for corrective or remedial action
- Final determination of status, including assessment of risk to water resources; non-implementing landowners referred to DEP for development of a water monitoring plan
Implementation Assurance Program Concept

Implementation Assurance Process for Producers in BMAP Areas

Enrolled in BMPs?

Yes

Needs Improvement

Implementation Evaluation

Satisfactory

Return to Implementation Evaluation Schedule

Plan Completed

Plan NOT Completed

Implementation Assistance / Develop Corrective Action Plan

No Plan

No Plan or Plan NOT Completed

Compliance Assistance / Develop Remedial Action Plan

Refer to DEP for action under DEP rules

Note: Enrolled producers NOT located in BMAP areas are not subject to referral to DEP, but will otherwise follow this same process.
Current Activity

• Internal working groups
  o IA criteria development and standardization
  o Data systems
  o “Program Guide” describe the full BMP program including development, adoption, implementation and review/revision; currently in draft
  o Rule development expected to begin mid- to late summer

• BMP program
  o Continued cycle of review and update
  o Revising cost-share guidance to incentivize technologies
  o Renewing the Research Coordinating Committee

• Extensive stakeholder outreach program
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