

Orange Creek BMAP Annual Meeting

March 31, 2021

Cori Hermle

Florida Department of Agriculture and Consumer Services

Office of Agricultural Water Policy



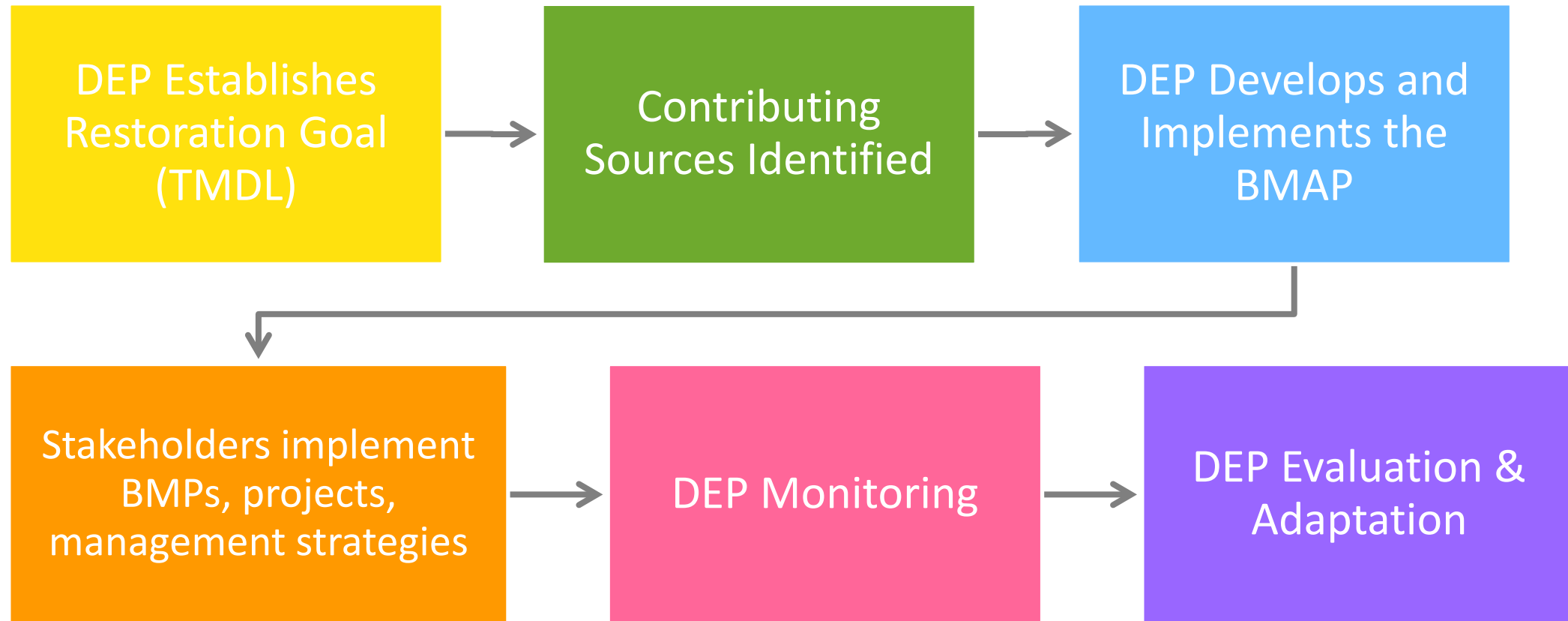
Florida Department of Agriculture and Consumer Services

Overview

- Agricultural Best Management Practices
- FDACS Role in BMP Implementation
- Producer Options in BMAP Areas
- BMP Implementation Verification
- Senate Bill 712
- Rule Revisions and BMP Manual Updates
- FDACS OAWP Legislative Report



Framework



Agricultural Best Management Practices

- Management strategies, tools and practices that improve water quality, conserve water, enhance soil health and protect water resources
- Based on the best available science and technology
- Must be technically and economically feasible
- Must balance production and water resource protection



Benefits of Agricultural Best Management Practices

- Increase efficiencies in nutrient, irrigation and water management
- Conservation and protection of water and environmental resources
- Promote climate resiliency and carbon sequestration
- Improve soil health
- Promote groundwater recharge



FDACS Role in BMP Implementation

- Develop BMPs in Manuals and adopt BMPs by Rule
- Assist Producers with BMP Enrollment
- Identify and support targeted cost-share of select BMPs
- Fund research to develop new BMPs and improve BMP effectiveness
- Verify proper implementation through site visits and record review



Producer Options in BMAP Areas

1. Sign an NOI and properly implement applicable BMPs for presumption of compliance, OR
2. Follow an FDEP or WMD-prescribed water quality monitoring plan at a Producer's expense



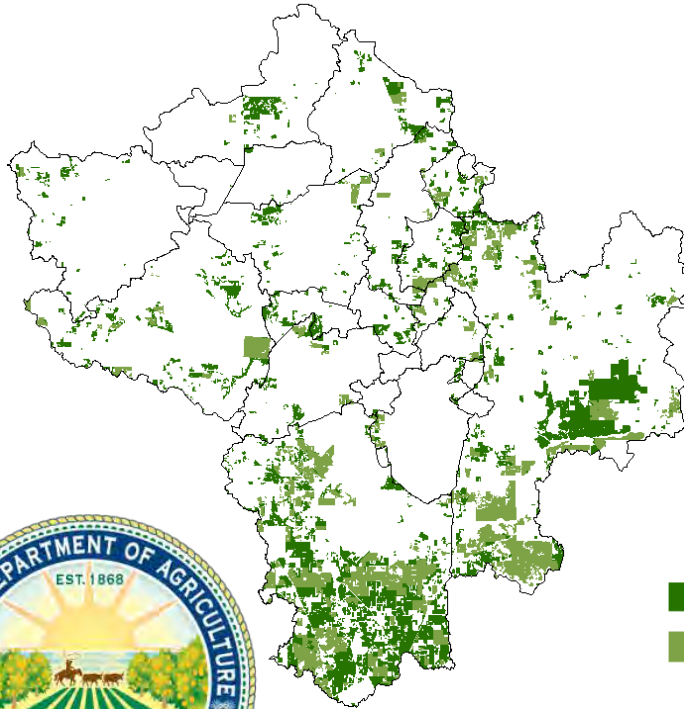
Highlights within Orange Creek BMAP

- 41% of all agricultural acres are enrolled in the FDACS BMP program
- 77% of all irrigated agricultural acres are enrolled in the FDACS BMP program
- Majority of enrollments are Cow/Calf



Ag Enrollment

Subbasin	FSAID Ag Lands	FSAID Ag Enrolled	
Hogtown Creek	901	95	11%
Orange Creek	22,032	10,922	50%
Paynes Prairie	4,502	1,623	36%



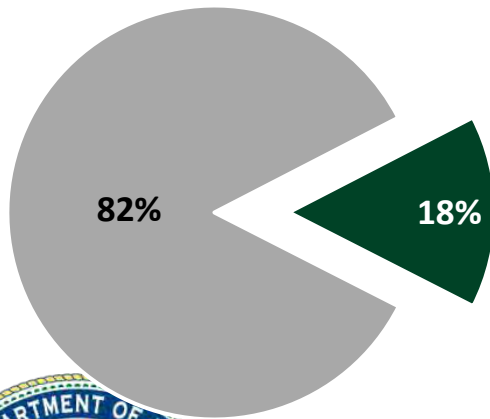
FSAID Ag Lands
 Enrolled Ag

Lake	Model Segment	FSAID Ag Lands	FSAID Ag Enrolled	
Lochloosa Lake	16	18	-	0%
Lochloosa Lake	17	1,069	383	36%
Lochloosa Lake	18	1,224	335	27%
Lochloosa Lake	19	1,311	315	24%
Lochloosa Lake	20	521	337	65%
Lochloosa Lake	21	535	10	2%
Lochloosa Lake	23	390	234	60%
Lochloosa Lake	24	102	40	39%
Lochloosa Lake	25	32	-	0%
Lochloosa Lake	26	30	0.3	1%
Lochloosa Lake	27	575	284	49%
Lochloosa Lake	28	23	4	16%
Newnans Lake	Lower Hatchett Creek	1,471	355	24%
Newnans Lake	Lower Little Hatchett	95	-	0%
Newnans Lake	Newnans Lake	1,269	355	28%
Newnans Lake	Upper Hatchett Creek	1,234	75	6%
Newnans Lake	Upper Little Hatchett	3	-	0%
Orange Lake	Camps Canal and River St	1,213	425	35%
Orange Lake	Orange Lake	28,804	11,927	41%
Orange Lake	Not modeled	803	0	0%

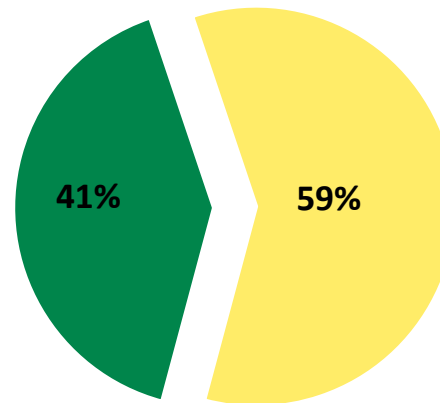
Agricultural Lands within Orange Creek BMAP

BMAP Area (Acres)	FSAID Ag Lands (Acres)	FSAID Ag Enrolled (Acres)	FSAID Ag Remaining (Acres)	Remaining Unlikely Enrollable (Acres)	Remaining Likely Enrollable (Acres)
385,271	68,401	27,819	40,582	15,943	24,661

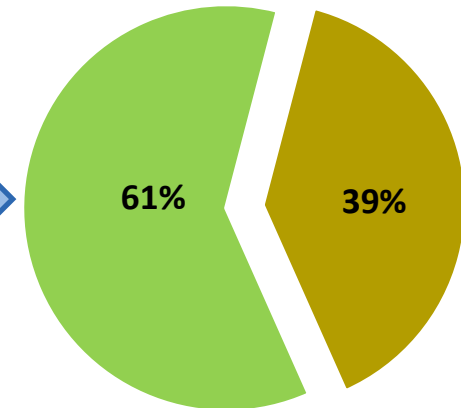
BMAP Area vs
FSAID Ag Lands



Enrolled Acreage vs
Remaining Acreage



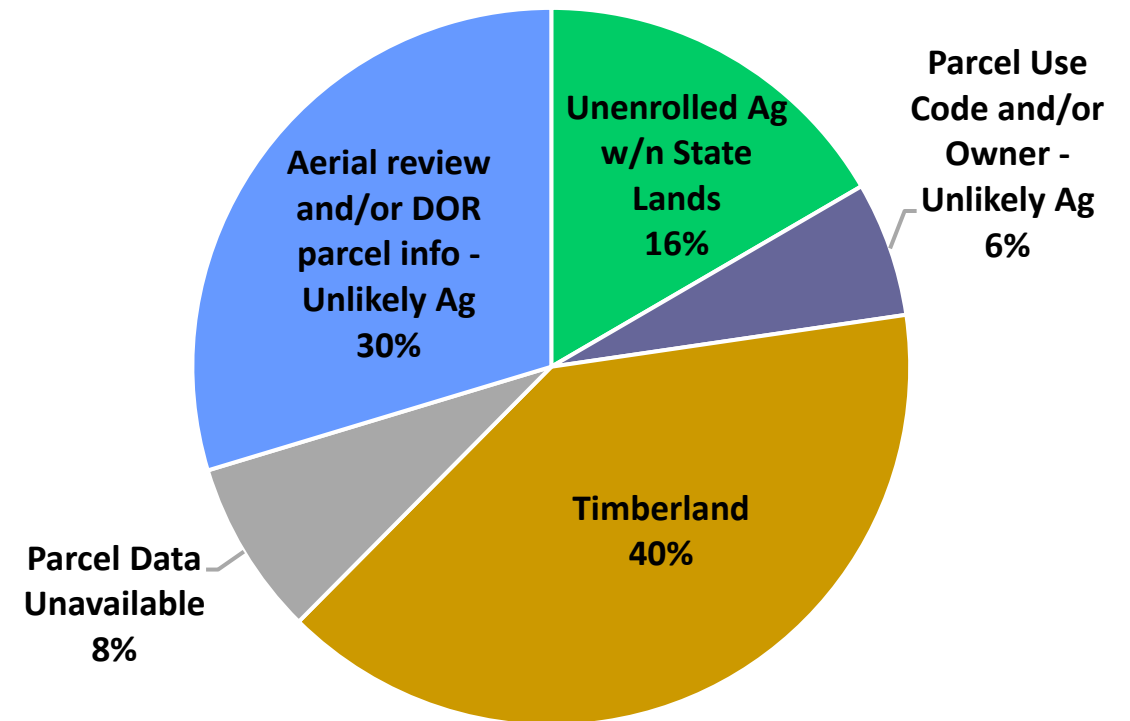
Remaining Acreage:
Likely Enrollable Ag vs
Unlikely Enrollable Ag



Unlikely Enrollable Agricultural Lands within Orange Creek BMAP

Category	Acres
Unenrolled Ag within State Lands	2,644
Parcel Use Code and/or Owner – Unlikely Ag	967
Residential Development	25
Timberland	6,326
Parcel Data Unavailable	1,259
Aerial review and/or DOR parcel info – Unlikely Ag	4,722

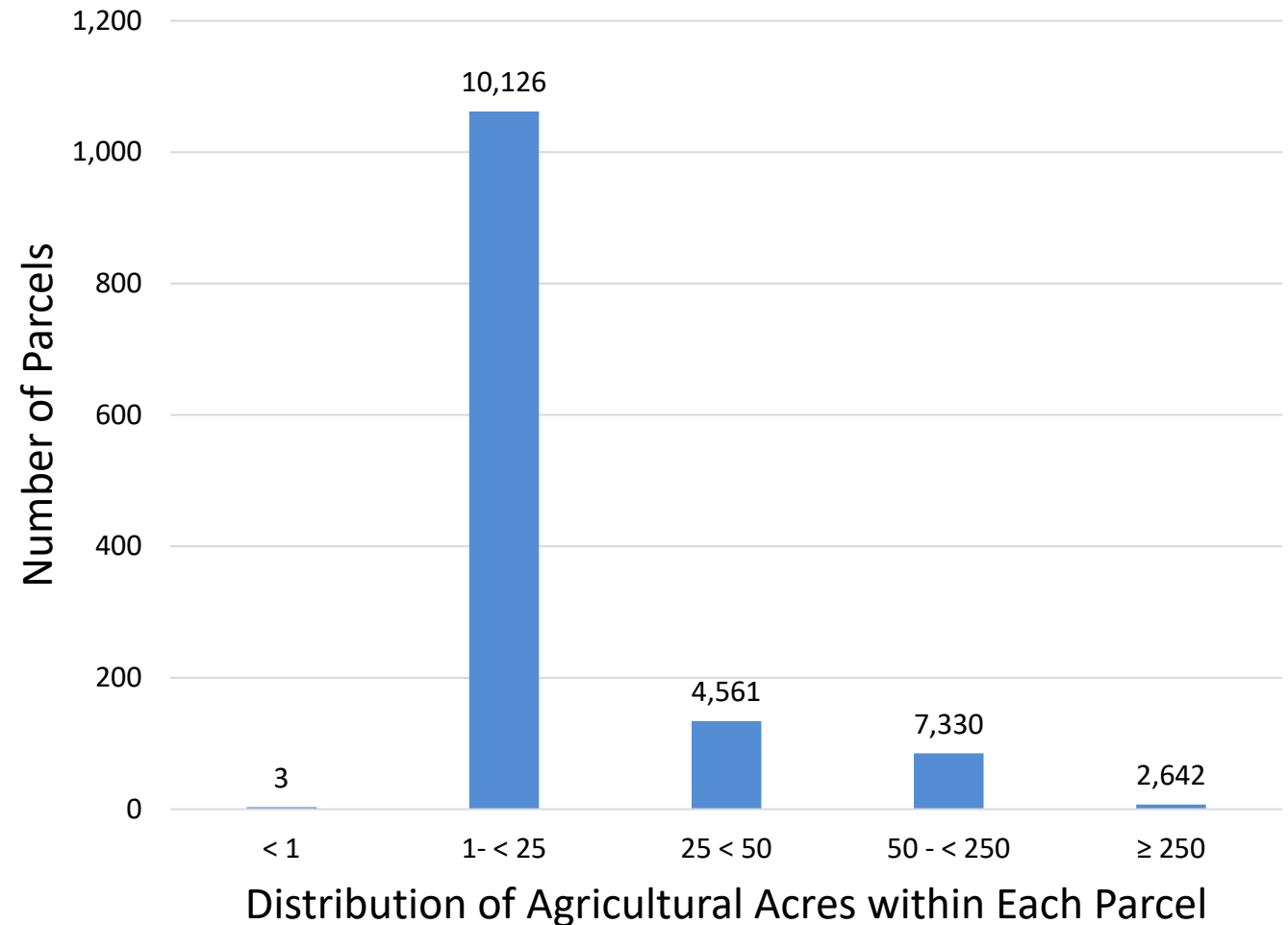
Remaining Acreage: Unlikely Ag Breakdown



Remaining Likely Enrollable Agricultural Lands within Orange Creek BMAP

Ag Acres within Parcel	Parcel Count	Total Ag Acres
< 1	3	3
1 - < 25	1,062	10,126
25 - < 50	134	4,561
50 - < 250	85	7,330
≥ 250	7	2,642

Remaining Likely Enrollable Acres: 24,661



BMP Implementation Verification

- Process to verify the status of implementation of BMPs - required by 2016 law, strengthened by SB 712 (2020)
- Status of BMP implementation gathered from field staff site visits conducted on all enrolled farms, including record review
- Data utilized to track compliance and provide information for development of the required annual report to the Legislature
- Large workload - requires the assistance of enrolled producers and field staff working together



New SB 712 Requirements

- Implementation verification site visits to audit the proper implementation of best management practices by enrolled producers at least every two years
- Collection and Retention of nutrient application records
- Transfer of nutrient application information to FDEP for utilization in BMAP assessment
- Development of a research plan to inform future LBR development beginning in the 2022 Legislative Session



New SB 712 Requirements

- During a verification visit, producer records are required to demonstrate compliance with the BMPs (Collect and Review)
- Certain records detailing nutrient application are required to be collected and retained by OAWP
- OAWP Rulemaking to standardize record retention across varied BMP manuals and recordkeeping processes (Nutrient Application Record Form)

Nutrient application information is provided to the FDEP for utilization within BMAP assessment



OAWP Implementation of SB 712

- **BMP Research Solicitation**
- **Human Resources**
 - 8 additional FTEs
 - Prioritize IVs in targeted BMAPs
 - Update training and staff guidance on enrollment and implementation verification
- **Implementation Verification**
 - Record retention pursuant to IV visits initiated July 1, 2020
 - Development of NARF for utilization on IV visits to retain nutrient application information

Rule Making



OAWP Implementation of SB 712

Producer Outreach

- FAQs Document
- Technical Assistance under development
- Video Assistance under development
- Continued collaboration with UF/IFAS Extension to raise awareness



Commissioner Nicole "Nikki" Fried

Pay/Register Online Forms By Topic Our Department

Home / Agriculture Industry / Water / Agricultural Water Policy FAQ

Agricultural Water Policy FAQ

Frequently asked questions about the Florida Department of Agriculture and Consumer Services' (FDACS) Office of Agricultural Water Policy, Best Management Practices (BMPs), and other topics

For information on the passage of Senate Bill 712 and new requirements for agricultural producers and landowners enrolled in the FDACS BMP program, see our [Senate Bill 712 FAQ](#) [2.7 MB].

For more information about BMPs, see our [Agricultural BMPs FAQ](#) [1.4 MB].

Select a question below to expand the answer.

- 1 What programs are administered by the FDACS Office of Agricultural Water Policy?
- 2 What is a BMP?
- 3 Are landowners required to implement BMPs?
- 4 How are BMPs adopted?
- 5 Does the FDACS Office of Agricultural Water Policy participate in BMP research and demonstration projects?

Water

- Agricultural Best Management Practices
- Agricultural Permit Exemption Determinations
- Agricultural Water Policy FAQ**
- Agricultural Water Supply Planning
- Mobile Irrigation Labs
- Office of Agricultural Water Policy

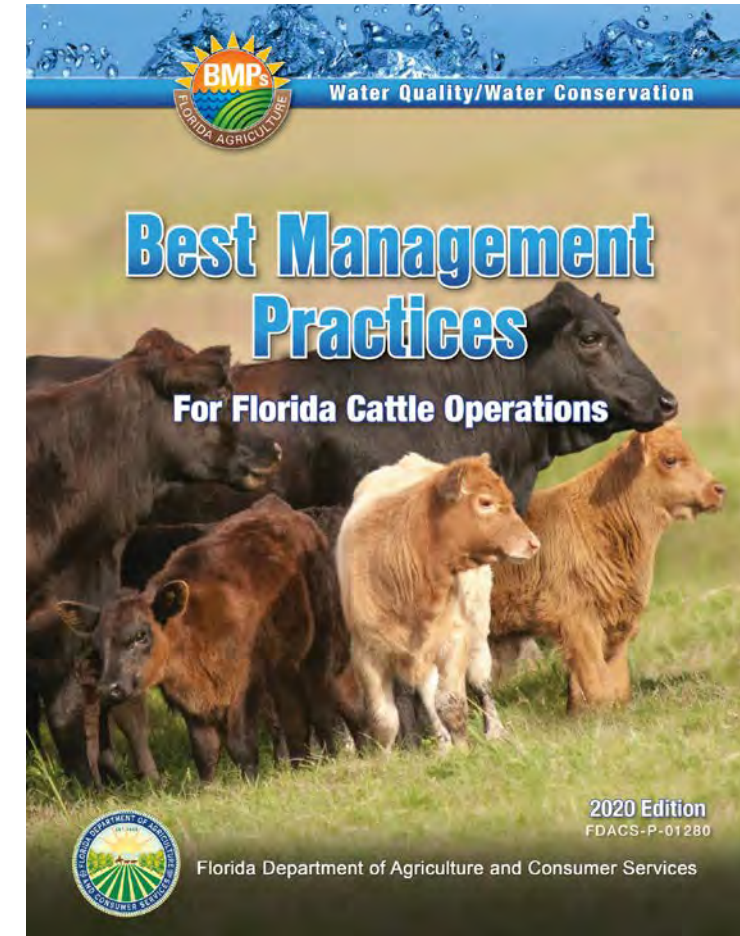
Chapter 5M-1 Rule Revisions

- Update language for consistency with SB 712
- Definitions (5M-1.001)
- Implementation Verification (5M-1.008)
 - “collect and review” records for compliance
 - “collect and retain” NARF or substantially similar records
- BMP Implementation Assistance (5M-1.009)
 - Update timeframes for corrective action implementation and referral to FDEP for compliance/enforcement



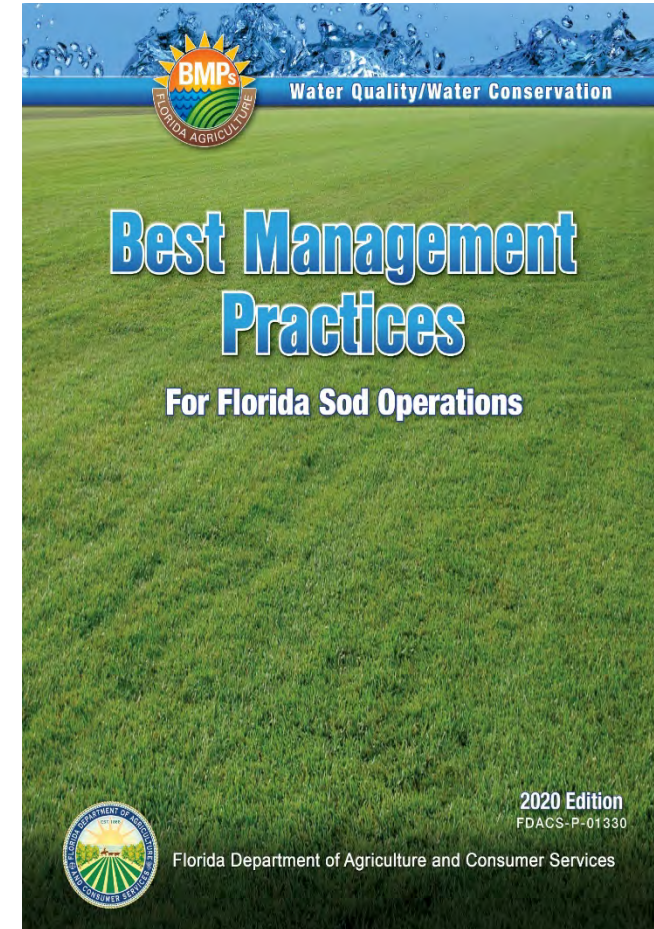
Upcoming BMP Manual Revisions

- Revision of the 2008 Cow/Calf BMP Manual
- Includes new BMPs for stocker and backgrounding operations
- Manual has been initially verified as effective by FDEP
- Will require revision to Rule 5M-11, F.A.C. to adopt manual by reference

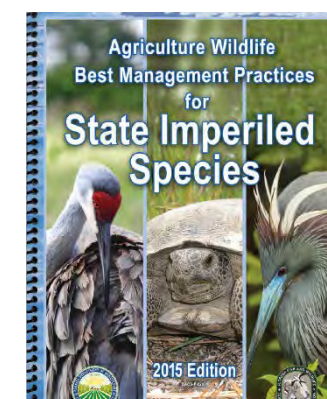
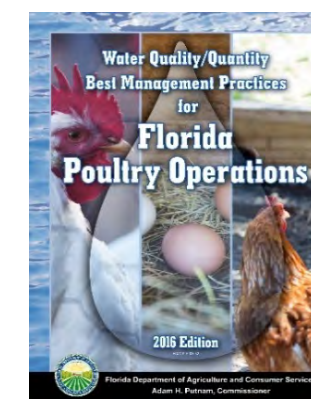
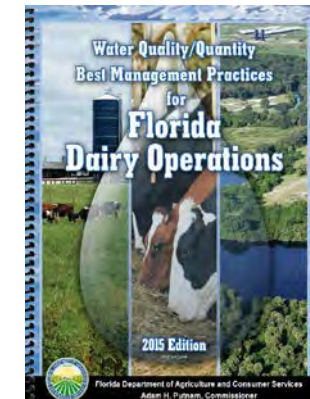
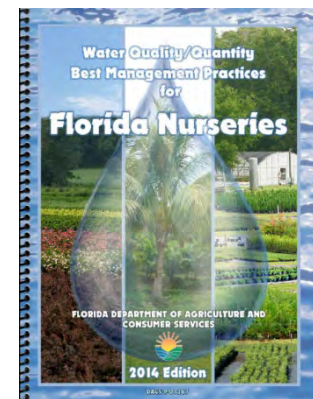
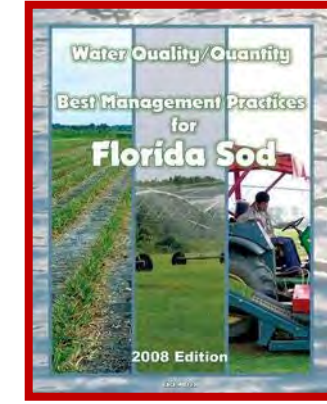
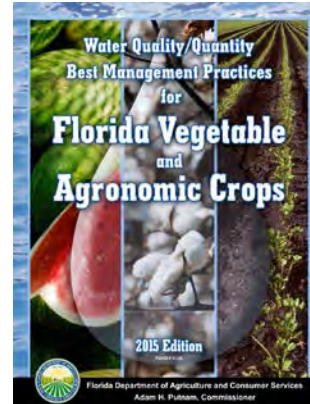
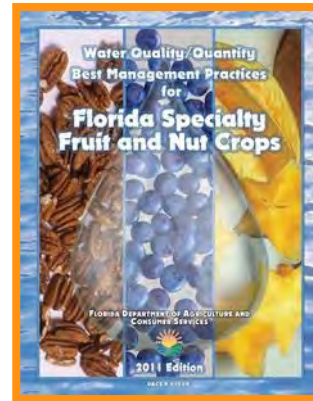
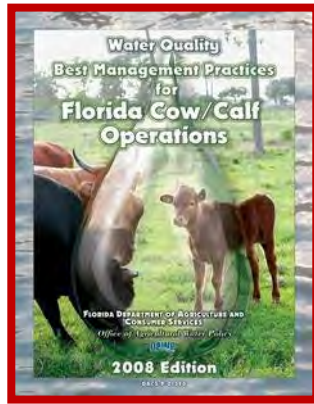


Upcoming BMP Manual Revisions

- Revision of the 2008 Sod BMP Manual
- Includes new 4Rs narrative in nutrient management section and reformatted BMP Checklist that contains all BMPs within three sections
- Manual has been initially verified as effective by FDEP
- Will require revision to Rule 5M-9, F.A.C. to adopt manual by reference



Adopted BMP Manuals



** Manuals to be developed – Hemp and Diversified Operations

Florida Department of Agriculture and Consumer Services

2020 FDACS Legislative Report

Florida Department of Agriculture and Consumer Services Office of Agricultural Water Policy



Status of Implementation of Agricultural Nonpoint Source Best Management Practices

July 1, 2020

Report to the Governor, the President of the Senate, and the Speaker of the House
Pursuant to Section 403.0675(2), F.S.

Publication No: FDACS-P-01924 07/20

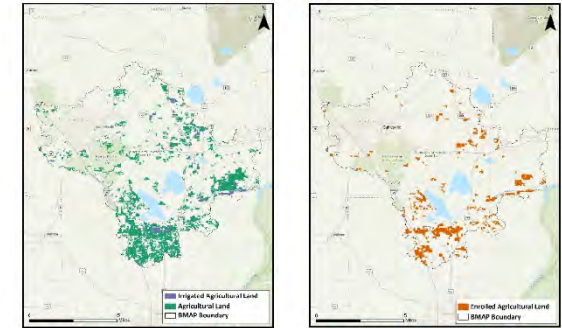
Status of Implementation of Agricultural Best Management Practices (BMPs) Statewide

Enrollment and Response Summary	2019	Change from 2018
Total agricultural acres statewide	7,104,219	
Total agricultural acres enrolled	3,983,488	
Percentage of agricultural acres enrolled	56%	2%
Total irrigated acres	1,887,858	
Total irrigated acres enrolled	1,501,671	
Percentage of irrigated acres enrolled	80%	4%

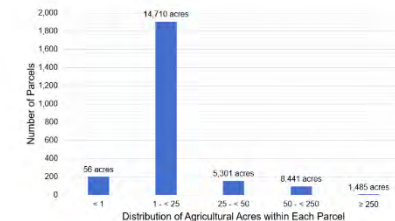
Agricultural Acres Enrolled

BMP Manuals	Acres
Citrus	492,937
Conservation Plan Rule	189,104
Cow/Calf	1,422,515
Dairy	56,877
Equine	14,897
Fruit & Nut	17,423
Lake Okeechobee Protection Plan (LOPP)	29,610
Multiple Commodities	626,091
Nursery	33,047
Poultry	1,143
Row/Field Crops	1,065,884
Sod	33,344
Wildlife	616
TOTAL	3,983,488

Status of Implementation of Agricultural Best Management Practices (BMPs) in the Orange Creek



Enrollment and Response Summary	2019	Change from 2018
Total agricultural acres in the BMAP	51,410	
Total agricultural acres enrolled	21,417	
Percentage of agricultural acres enrolled	42%	11%
Total irrigated acres	3,699	
Total irrigated acres enrolled	2,748	
Percentage of irrigated acres enrolled	74%	17%



Agricultural Acres Enrolled

BMP Manuals	Acres
Citrus	0
Cow/Calf	9,832
Dairy	77
Equine	2,679
Fruit & Nut	1,493
Multiple Commodities	3,272
Nursery	43
Row/Field Crops	4,021
Sod	0
TOTAL	21,417

Questions?

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Florida Department of Agriculture and Consumer Services