

Upper Ocklawaha Basin Management Action Plan (BMAP) Annual Update

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FDACS

Office of Agricultural Water Policy (OAWP)

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Presentation Overview

- ✓ Agricultural Best Management Practice (BMP) Program Overview and Enrollment Update
- ✓ Implementation Verification Program & Annual Reporting on BMP Implementation



Agricultural BMP Program Overview and Enrollment Update



Agricultural BMP Overview

- ✓ Practical measures that reduce amount of fertilizers, pesticides, and animal waste that enter water resources.
- ✓ BMP manuals developed in collaboration with agricultural industry, agencies, and others.
- ✓ Must be **economically and technically feasible** for producer to implement.



BMP Types

✓ Management BMPs

- ✓ Examples: Nutrient and irrigation management.
- ✓ Comprise majority of practices and often are not readily observable.
- ✓ Generally affordable.

✓ Structural BMPs

- ✓ Examples: Water control structures, fencing, and tailwater recovery systems.
- ✓ May require cost share to be economically feasible.

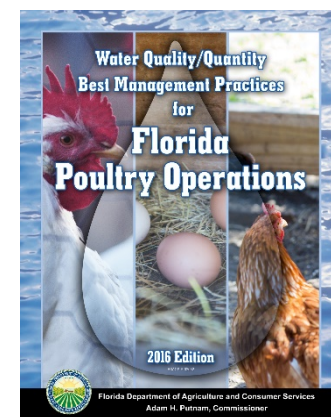
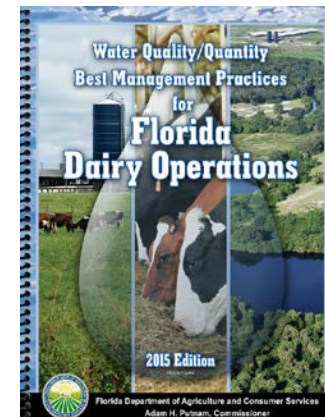
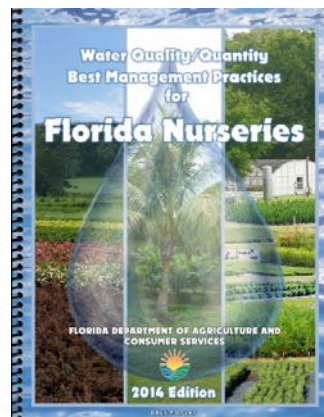
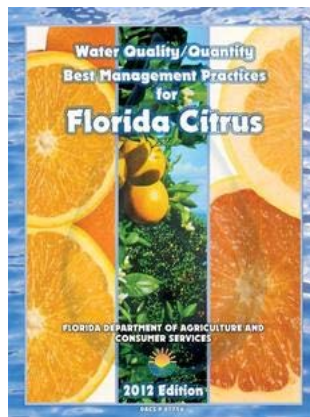
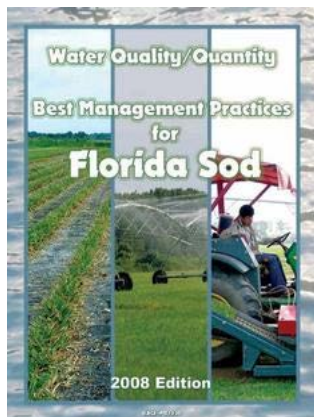
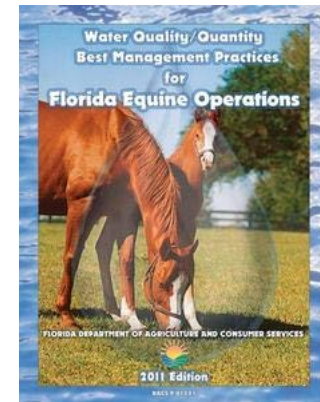
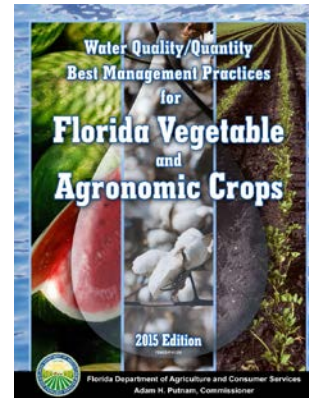
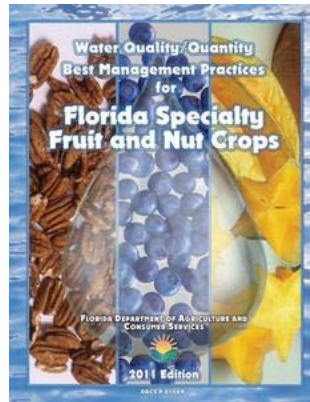
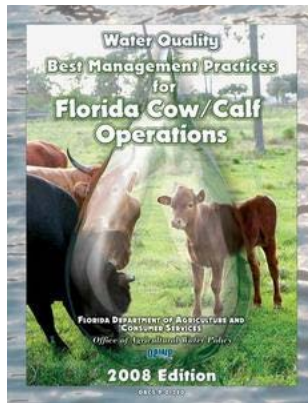


OAWP BMP Programs

Manual	Adoption	Rule Reference
Cow/Calf	2009	5M-11
Sod	2008	5M-9
Specialty Fruit and Nut	2011	5M-13
Equine	2012	5M-14
Citrus	2013	5M-16
Nursery	2014	5M-6
Vegetable and Agronomic Crops	2015	5M-8
Dairy	2016	5M-17
Poultry	2016	5M-19



OAWP BMP Manuals



Agriculture's Role in Water Quality Protection

- ✓ Operations within adopted BMAP areas and/or Northern Everglades have two options:
 - ✓ Enroll in and implement FDACS BMPs.
 - ✓ Follow a Florida Department of Environmental Protection (FDEP)- or water management district approved water quality monitoring plan at operator's own expense.



Ag Land Use in the Upper Ocklawaha BMAP

Crop	Acres
Citrus	11,146
Fallow	18,077
Field Crops	2,326
Fruit (Non-citrus)	639
Grazing Land	45,380
Greenhouse/Nursery	2,481
Hay	1,217
Livestock	1,644
Other	13,080
Sod	596
Vegetables (Fresh Market)	964
Total	97,550

- 97,550 agricultural acres (FSAID 6, 2017)
- ~79,473 agricultural acres estimated to be in active production
 - Does not include fallow lands
- ‘Other’ category can include open rural lands, wet prairies, and other lands that may not actually have agricultural activity on them
- Grazing land is a classification based on land use (usually pasture) – all grazing lands may not have cattle/livestock on them at any given time





Ag Land Use in the Upper Ocklawaha BMAP

Waterbody	FSAID 6 Ag Land Use	Acres
Apopka	Citrus	872
	Fallow	1,803
	Field Crops	651
	Fruit (Non-citrus)	104
	Grazing Land	5,108
	Greenhouse/Nursery	528
	Hay	119
	Livestock	137
	Other	1,101
	Sod	215
	Vegetables (Fresh Market)	616
Total		11,255

Waterbody	FSAID 6 Ag Land Use	Acres
Beauclair	Aquaculture	7
	Citrus	388
	Fallow	841
	Field Crops	54
	Grazing Land	644
	Greenhouse/Nursery	76
	Hay	33
	Livestock	129
	Other	173
	Sod	254
	Vegetables (Fresh Market)	100
Total		2,698

Waterbody	FSAID 6 Ag Land Use	Acres
Dora	Citrus	84
	Fallow	146
	Field Crops	14
	Fruit (Non-citrus)	34
	Grazing Land	71
	Greenhouse/Nursery	24
	Livestock	40
	Other	116
Total		528

Waterbody	FSAID 6 Ag Land Use	Acres
Eustis	Citrus	168
	Fallow	536
	Field Crops	86
	Fruit (Non-citrus)	1
	Grazing Land	1,379
	Greenhouse/Nursery	23
	Hay	14
	Livestock	28
	Other	374
	Sod	127
Total		2,734



Ag Land Use in the Upper Ocklawaha BMAP

Waterbody	FSAID 6 Ag Land Use	Acres
Griffin	Citrus	173
	Fallow	432
	Field Crops	82
	Fruit (Non-citrus)	107
	Grazing Land	4,050
	Greenhouse/Nursery	29
	Hay	28
	Livestock	120
	Other	456
	Vegetables (Fresh Market)	20
	Total	5,497

Waterbody	FSAID 6 Ag Land Use	Acres
Harris	Citrus	1,089
	Fallow	1,311
	Field Crops	317
	Fruit (Non-citrus)	8
	Grazing Land	2,174
	Greenhouse/Nursery	245
	Hay	269
	Livestock	56
	Other	1,373
	Vegetables (Fresh Market)	11
	Total	6,854

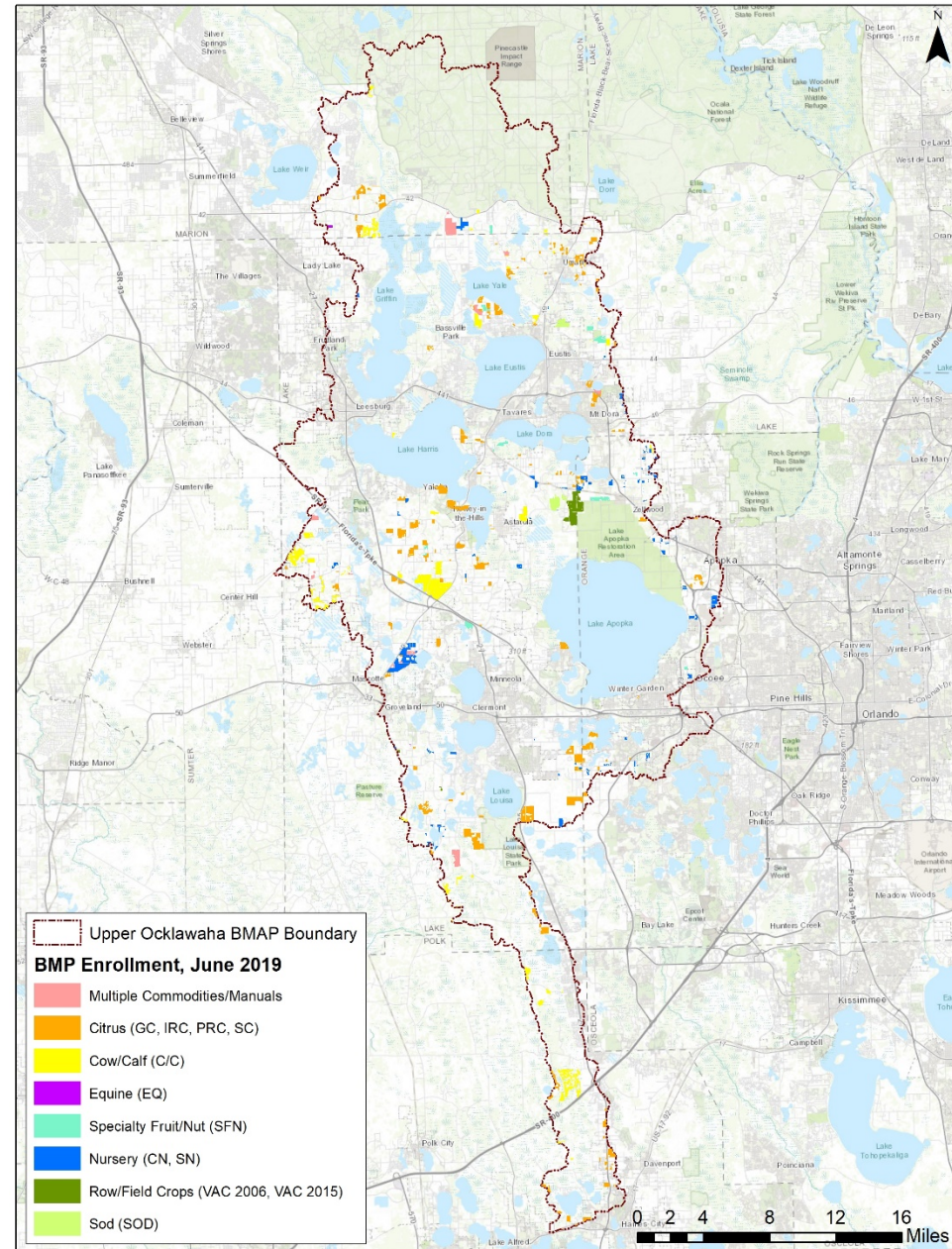
Waterbody	FSAID 6 Ag Land Use	Acres
Palatlahaha	Citrus	269
	Fallow	608
	Field Crops	20
	Grazing Land	3,133
	Greenhouse/Nursery	606
	Hay	127
	Livestock	52
	Other	549
	Vegetables (Fresh Market)	122
	Total	5,485

Waterbody	FSAID 6 Ag Land Use	Acres
Yale	Citrus	862
	Fallow	1,016
	Field Crops	137
	Fruit (Non-citrus)	42
	Grazing Land	1,577
	Greenhouse/Nursery	136
	Livestock	275
	Other	471
	Total	4,517



Upper Ocklawaha BMP Enrollment – June 2019

Commodity	Enrolled Ag Acres
Citrus	7,229
Cow/Calf	4,334
Equine	25
Fruit/Nut	727
Multiple Commodities	1,112
Nursery	2,261
Row/Field Crops	806
Sod	503
Total	16,997



Upper Ocklawaha BMP Enrollment by Basin – June 2019

Commodity	Basin	Enrolled Ag Acres
Citrus	Apopka	803
Cow/Calf		178
Fruit/Nut		181
Multiple Commodities		16
Nursery		564
Row/Field Crops		670
Total		2,413
Citrus	Beauclair	135
Nursery		208
Row/Field Crops		111
Sod		326
Total		780
Citrus	Dora	27
Fruit/Nut		76
Total		103
Citrus	Eustis	114
Cow/Calf		173
Fruit/Nut		84
Multiple Commodities		27
Nursery		3
Sod		177
Total		579

Commodity	Basin	Enrolled Ag Acres
Citrus	Griffin	132
Cow/Calf		259
Multiple Commodities		219
Total		610
Citrus	Harris	877
Cow/Calf		61
Nursery		75
Total		1,013
Citrus	Palatlakaha	74
Cow/Calf		28
Multiple Commodities		119
Nursery		551
Total		772
Citrus	Yale	474
Cow/Calf		113
Fruit/Nut		69
Multiple Commodities		129
Total		785

Sum of Ag Acres Enrolled in all Priority Waterbodies

7,055

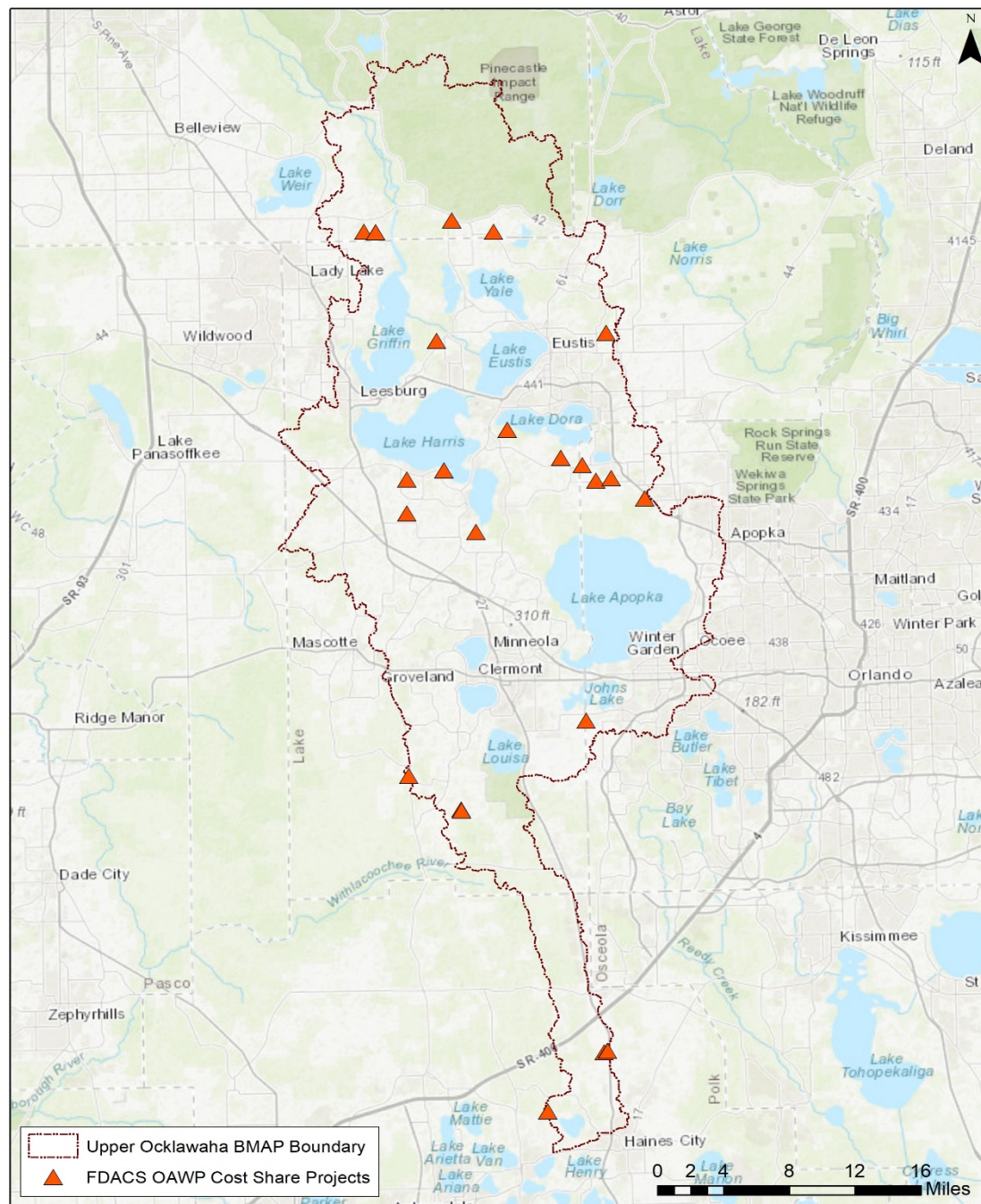


Upper Ocklawaha BMAP

FDACS Cost Share Projects

Ag Land Use/Commodity	Project Type	Count of Projects (per Commodity and Type)	Potential Ag Acres Treated
CITRUS	Chemigation/Fertigation	6	506
CITRUS	Irrigation Improvements, Automation	1	56
CITRUS	Precision Ag technology	3	55
COW/CALF	Well, pipeline, trough, pond, heavy use protection	2	3
FRUIT/NUT	Chemigation/Fertigation	2	42
FRUIT/NUT	Irrigation Improvements, Automation	4	140
FRUIT/NUT	Precision Ag technology	5	125
MULTIPLE COMMODITIES	Precision Ag technology	4	247
NURSERY	Irrigation Improvements, Automation	3	12





Annual Reporting and Implementation Verification Program



Implementation Verification Program

- ✓ Primary purposes
 - ✓ Document implementation of BMPs.
 - ✓ Report on implementation extent and progress, particularly in BMAP areas.
 - ✓ Provide basis for determination of implementation status.
- ✓ Secondary purposes
 - ✓ inform research priorities, opportunities for technical assistance, cost-share focal points, and BMP review/revision process.



Source: FDACS



Implementation Verification Program

- ✓ Required by Rule 5M-1 F.A.C.
- ✓ Annual Certification – electronic and/or staff assisted
- ✓ Implementation Verification Site Visit – Performed year round by OAWP field staff
- ✓ IV site visits are prioritized based on:
 - ✓ Age of the Notice of Intent (NOI)
 - ✓ Commodity type
 - ✓ Location of property in a BMAP or PFA
 - ✓ Producer participation in Annual Certification process



FDACS OAWP Annual Report

- ✓ OAWP Annual Report on the Status of Implementation of BMPs
 - ✓ July 1 each year
 - ✓ Reports on progress from the previous year using
 - ✓ Latest version of the Florida Statewide Agricultural Irrigation Demand (FSAID) geodatabase
 - ✓ data compiled via producer feedback (certification from previous slide)
 - ✓ Reported statewide and by BMAP
- ✓ [Link to 2019 Report](#)



Thank you!

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