

Silver Springs and Rainbow Springs Basin Management Action Plan (BMAP) Annual Updates

Katie Hallas

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 Update
- ✓ Orange Creek Compliance Assistance Update



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.

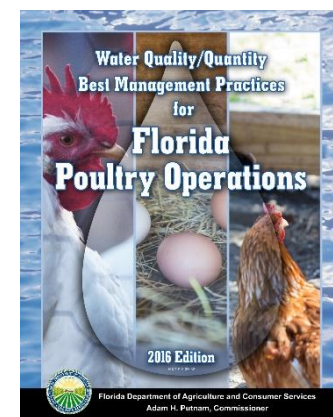
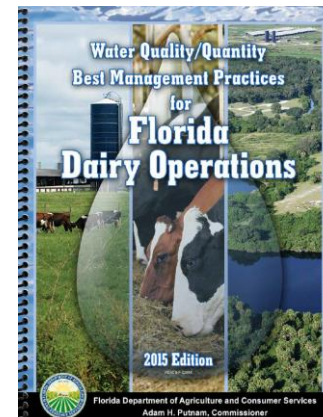
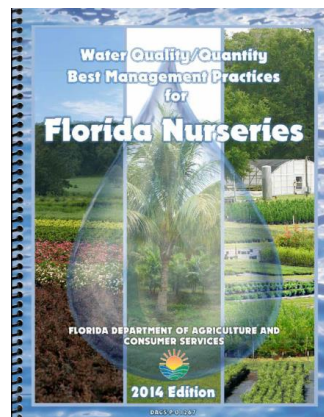
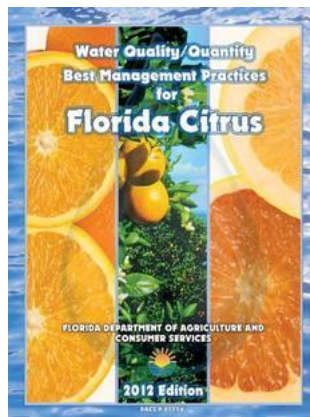
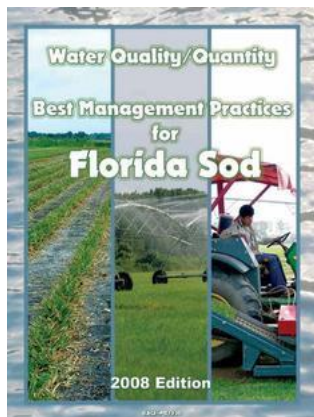
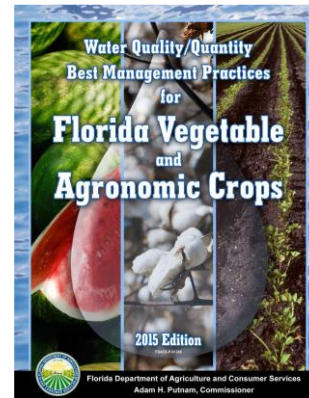
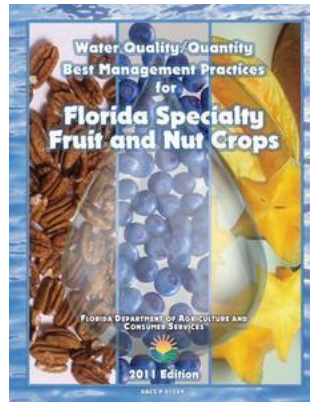
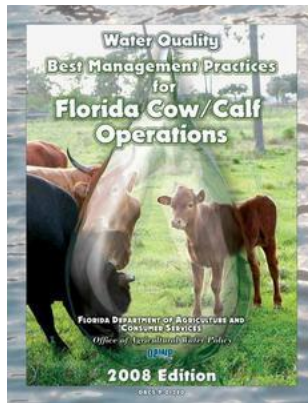


OAWP BMP Programs

Manual	Adoption	Rule Reference	Next Review
Cow/Calf	2009	5M-11	2016
Sod	2008	5M-9	2016
Specialty Fruit & Nut	2011	5M-13	2017
Equine	2012	5M-14	2017
Citrus	2013	5M-16	2018
Nursery	2014	5M-6	2018
Vegetable and Agronomic Crops	2015	5M-8	2020
Dairy	2016	5M-17	2021
Poultry	2016	5M-19	2021



OAWP BMP Manuals

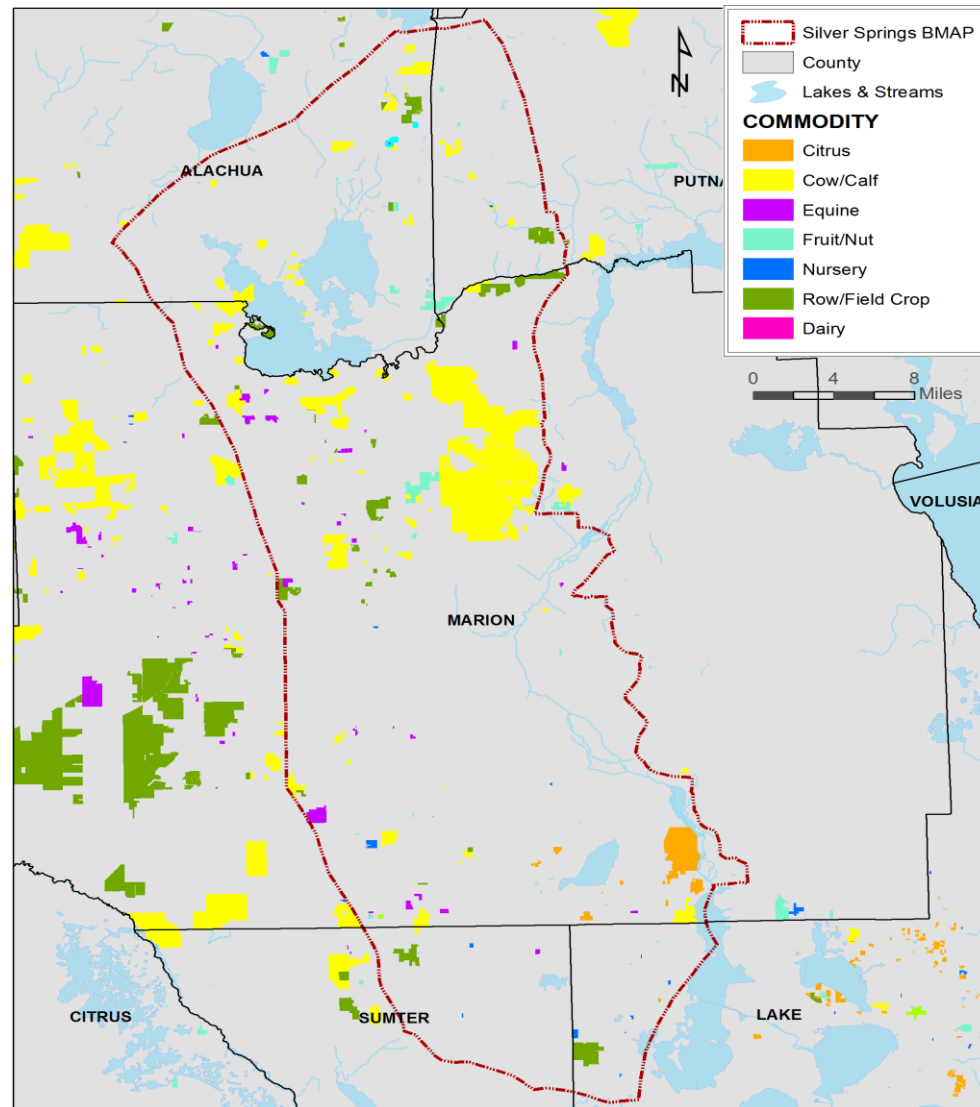


Agriculture's Role in Water Quality Protection

- ✓ 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.



Silver Springs BMAP Enrollment Update, June 2016



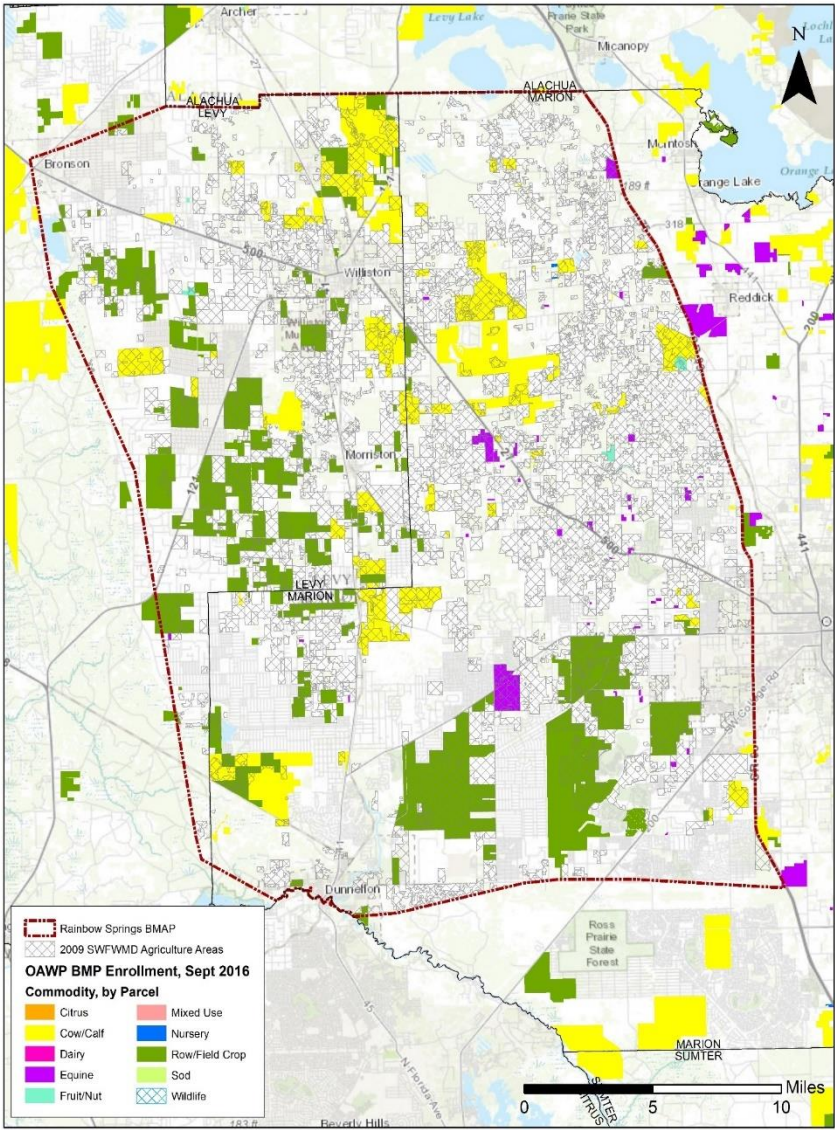
Agricultural Land Use in Silver Springs BMAP Area

2009 SJRWMD Land Use	Acres	FDACS Adjusted Acres
Pasture and Rangeland	95,054.80	95,054.80
Row/Field/Mixed Crops	22,000.50	22,000.50
Citrus	2,025.80	2,025.80
Abandoned Tree Crops	65.1	0
Fruit Orchards/Other Groves	931.7	931.7
Nurseries and Vineyards	454.7	454.7
Tree Nurseries	366.6	366.6
Ornamental	629.7	629.7
Sod Farms	284.9	284.9
Cattle Feeding Operations	81.4	81.4
Poultry Feeding Operations	74.8	74.8
Feeding Operations	83.1	83.1
Specialty Farms	830.6	830.6
Horse Farm	28,674.30	28,674.30
Dairies	1,004.60	1,004.60
Other Open Lands – Rural	1,661.00	0
Fallow Cropland	54.7	0
Aquaculture	11.1	-
Total	154,289.40	152,497.50

BMP Enrollment in Silver Springs BMAP Area, June 2016

Related FDACS BMP Programs	Acreage Enrolled	Related NOIs	2009 SJRWMD Land Use Acres within NOIs
Cow/Calf, Vegetable and Agronomic Crops (Hay)	32,631.21	61	9,889.16
Vegetable/Agronomic Crops	8,129.23	20	5,969.79
Equine	1,711.59	25	1,124.21
Citrus	3,282.83	14	918.87
Specialty Fruit and Nut	1,898.47	16	1,170.79
Nurseries	367.03	13	293.79
Dairy	89.65	2	83.52
Sod	40.34	1	40.06
Total	48,150.35	152	19,490.19

Rainbow Springs BMAP Enrollment Update, September 2016



Agricultural Land Use in Rainbow Springs BMAP Area

2009 SWFWMD Land Use	2009 Acres	FDACS Adjusted Acres
Cropland, Pastureland, Rangeland	92,977.5	92,977.5
Row Crops	10,816.4	10,816.43
Tree Crops	37.1	37.1
Nurseries and Vineyards	1,484.4	1,484.4
Specialty Farms	43,618.8	43,618.8
Feeding Operations	196.6	196.6
Other Open Lands – Rural	28,169.2	N/A
Aquaculture	27.9	N/A
Total	177,328.0	149,130.9

BMP Enrollment in Rainbow Springs BMAP Area, September 2016

Related FDACS BMP Programs	Acreage Enrolled	Related NOIs	2009 SWFWMD Land Use Acres within NOIs
Cow/Calf, Vegetable and Agronomic Crops (Hay)	28,432.96	40	16,287.03
Vegetable/and Agronomic Crops	54,288.16	89	42,640.62
Specialty Fruit and Nut, Citrus	317.458	5	129.31
Nurseries	30.37	1	9.29
Equine	2,209.19	40	1,897.61
Total	85,278.14	175	60,963.86

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.



Source: FDACS

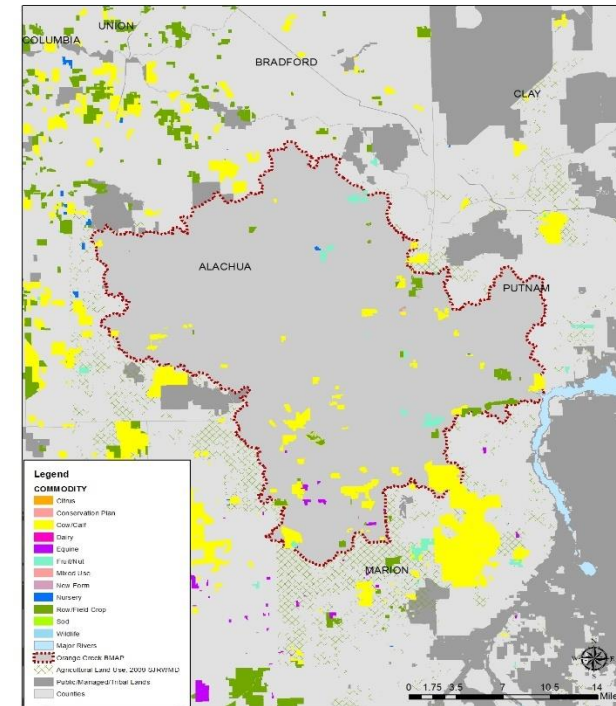


Orange Creek Compliance Assistance Update



Orange Creek Compliance Assistance Update

- ✓ FDACS sent letters to 225 landowners and received 170 responses (75.5% response rate).
- ✓ FDACS sent second letter to 51 non-respondents.
- ✓ FDEP sent letter to 51 non-respondents.



Conclusion

- ✓ Agricultural BMP Program Overview and Enrollment Update
- ✓ Implementation Verification Program Update
- ✓ Orange Creek Compliance Assistance Update



Thank you!

Rainbow Springs Contact:

Yesenia Escribano (Tallahassee)

Yesenia.Escribano@FreshFromFlorida.com

(850) 617-1732

Silver Springs Contact:

Cori Hermle (Palm Coast)

Corinne.Hermle@FreshFromFlorida.com

(850) 688-6156

Statewide BMAP Contact:

Katie Hallas (Tallahassee)

Katie.Hallas@FreshFromFlorida.com

(850) 617-1719

