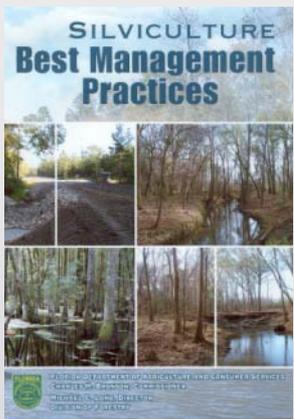


An Introduction To Florida's Silviculture Best Management Practices (BMPs)

Presented by: Robin Holland, FL Forest Service





What Are Silviculture BMPs?

B

Land Management Guidelines

M

Designed to Help Forest

P

Landowners Conduct Forestry

's

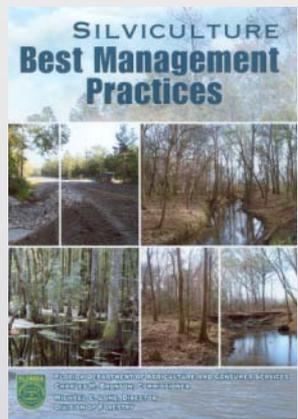
Activities Near Waterbodies

and Wetlands in a Manner that

Is Environmentally Sound.



- FL Forest Service Website



Why Are Silviculture BMPs Important?

B



They Represent a Balance Between Overall Natural Resource Protection and Forest Resource Use

M

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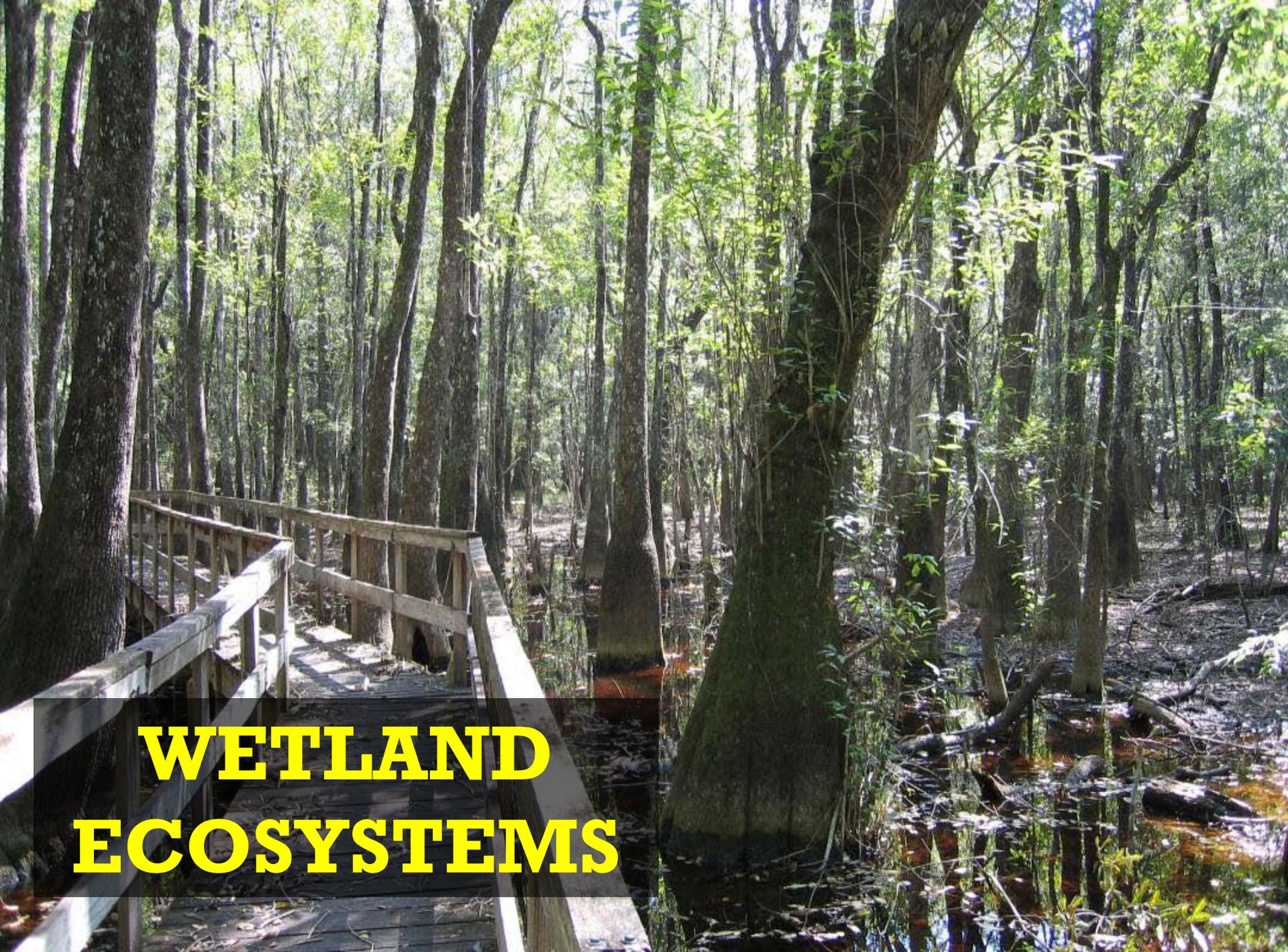


They are the Minimum Standards Necessary for Protecting and Maintaining:

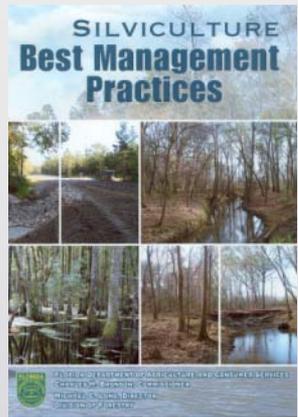


WATER QUALITY





WETLAND ECOSYSTEMS



When Do Silviculture BMPs Apply?

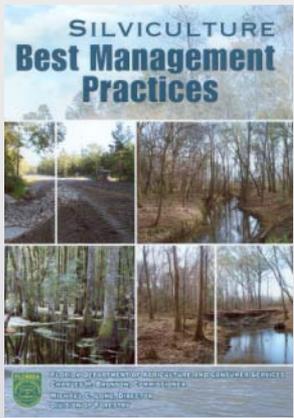
B Silviculture BMPs are
M Applicable on ALL Bonafide
P ONGOING Silviculture
's Activities with a FORESTRY
OBJECTIVE!





**Silviculture BMPs Are Not Intended
for Use on Timber Harvests
Preceding a Land Use Change**

What Government Agencies are Responsible for Silviculture BMPs?



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1972 Federal Clean Water Act

Florida
Department of Environmental Protection

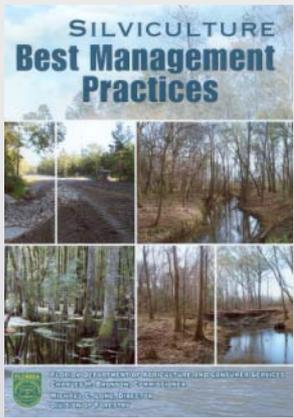
5 Water Management Districts (Regulatory)

M.O.A.

F.D.A.C.S. – F.F.S. (Non-Regulatory)



FL Forest Service Silviculture BMP Program



 **BMP Development**

B

Continuous, Provides for Change Over Time

 **BMP Implementation**

M

Conduct Training – Provide Professional Guidance

 **BMP Monitoring**

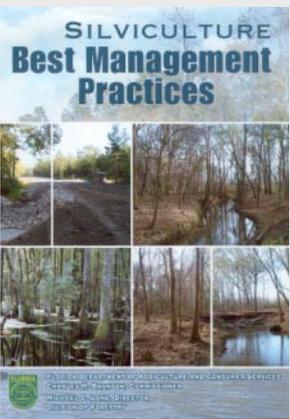
P

Conduct Surveys to Determine BMP Compliance and Verify BMP Effectiveness through Scientifically Reliable Research

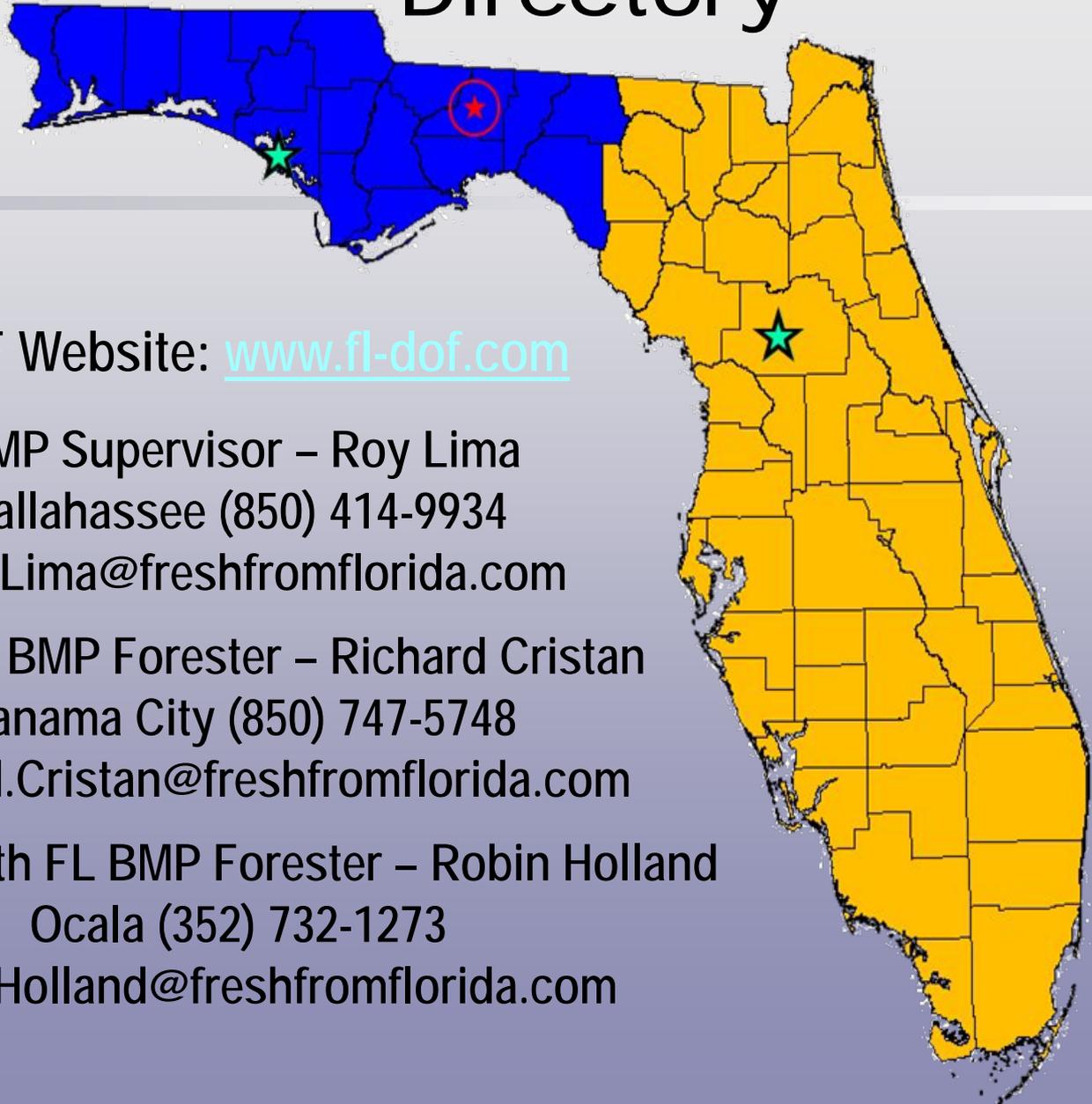
'S

 **Not Responsible for BMP Enforcement!**





Hydrology Section Directory



DOF Website: www.fl-dof.com

BMP Supervisor – Roy Lima

Tallahassee (850) 414-9934

Roy.Lima@freshfromflorida.com

West FL BMP Forester – Richard Cristan

Panama City (850) 747-5748

Richard.Cristan@freshfromflorida.com

East to South FL BMP Forester – Robin Holland

Ocala (352) 732-1273

Robin.Holland@freshfromflorida.com

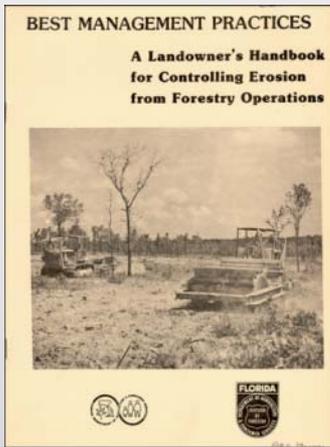
B

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Silviculture BMP Development

B

 First Developed in the mid-1970's

M

 In 1991 a BMP Technical Advisory Committee (pg. 1) was Established to Review & Revise BMPs

P

 Silviculture BMPs Revised in 1993, 2000, 2003, 2008, & 2011

's

Note: Each BMP Manual Revision is Associated with a Different Color Spiral



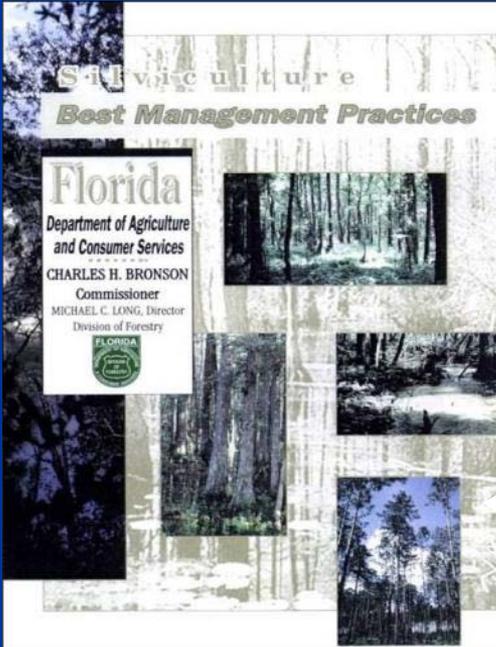
BEST MANAGEMENT PRACTICES

**A Landowner's Handbook
for Controlling Erosion
from Forestry Operations**



1980's
Manual

2008
"Current"
Manual
-Blue



2003
Manual
-Brown

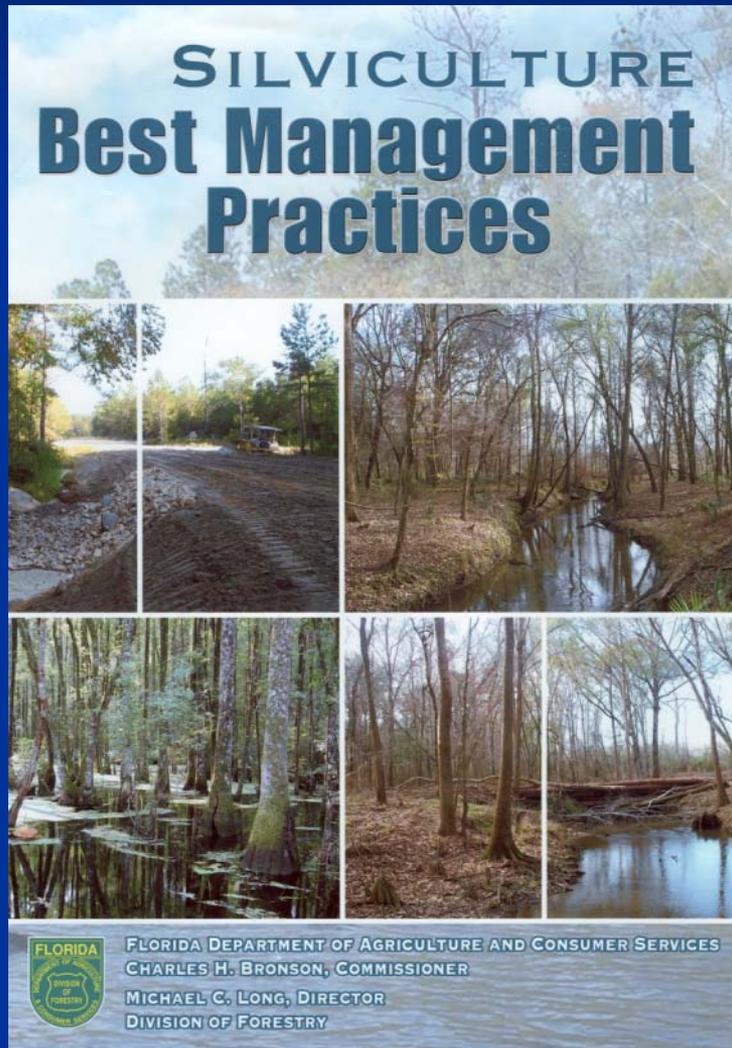
SILVICULTURE Best Management Practices



FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES
CHARLES H. BRONSON, COMMISSIONER

JAMES R. KARELS, DIRECTOR
DIVISION OF FORESTRY

Florida's Silviculture BMP Manual – Table of Contents



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- **Public Lands p. 16**
- **Wetlands p. 17**
- **Canals p. 22**
- **Sinkholes p. 24**
- **Forest Roads p. 25**
- **Stream Crossings p. 28**
- **Timber Harvesting p. 31**
- **Site Preparation and Planting p. 32**
- **Fireline Construction p. 33**
- **Pesticide & Fertilizer Appl. p. 34**
- **Waste Disposal p. 36**
- **Wet Weather Operations p. 37**
- **Emergency Conditions p. 38**

An aerial photograph showing a winding waterway or canal cutting through a dense, green wetland area. The waterway is dark and narrow, with a slight curve. The surrounding vegetation is thick and appears to be a mix of grasses and other wetland plants. The overall scene is a natural, undisturbed wetland environment.

**Special
Management
Zones (SMZs)**







WELCOME
TWIN RIVERS
STATE FOREST
CLEAN AIR AND WATER
TREES AND PLANTS
WILDLIFE
RECREATION

Wetland Harvesting









Forest Roads

Stream & Wetland Crossings





FOREST



Site Prep Operations

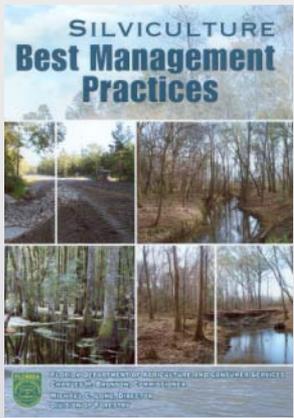


Herbicide & Fertilizer Applications

Firelines



Silviculture BMP Implementation



F.F.S. Hydrology Section Provides:

B



Professional Guidance on what BMPs are Applicable on Planned Forestry Operations

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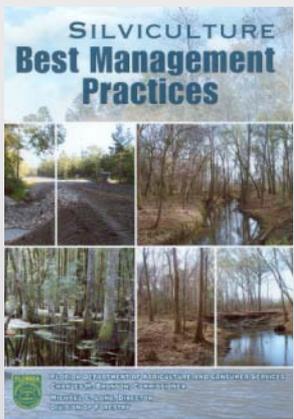
On-Site BMP Courtesy Checks for Ongoing and Recently Completed Operations

'S



BMP Training through a Variety of Educational Workshops





Silviculture BMP Compliance Monitoring

B



On the Ground BMP Surveys are Conducted Every Two Years on a Random Sample of Sites Identified from Fixed-Wing Aircraft

M



Each Survey Consists of about 200 Sites with Multiple BMP Practices

P



Landowner Participation in the Survey is Voluntary

'S

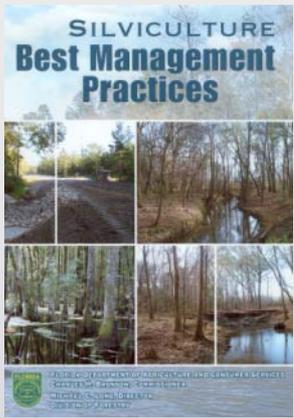


15 Biennial Surveys Conducted Over Past 28 Years (1981-2009), 2011 Survey Ongoing

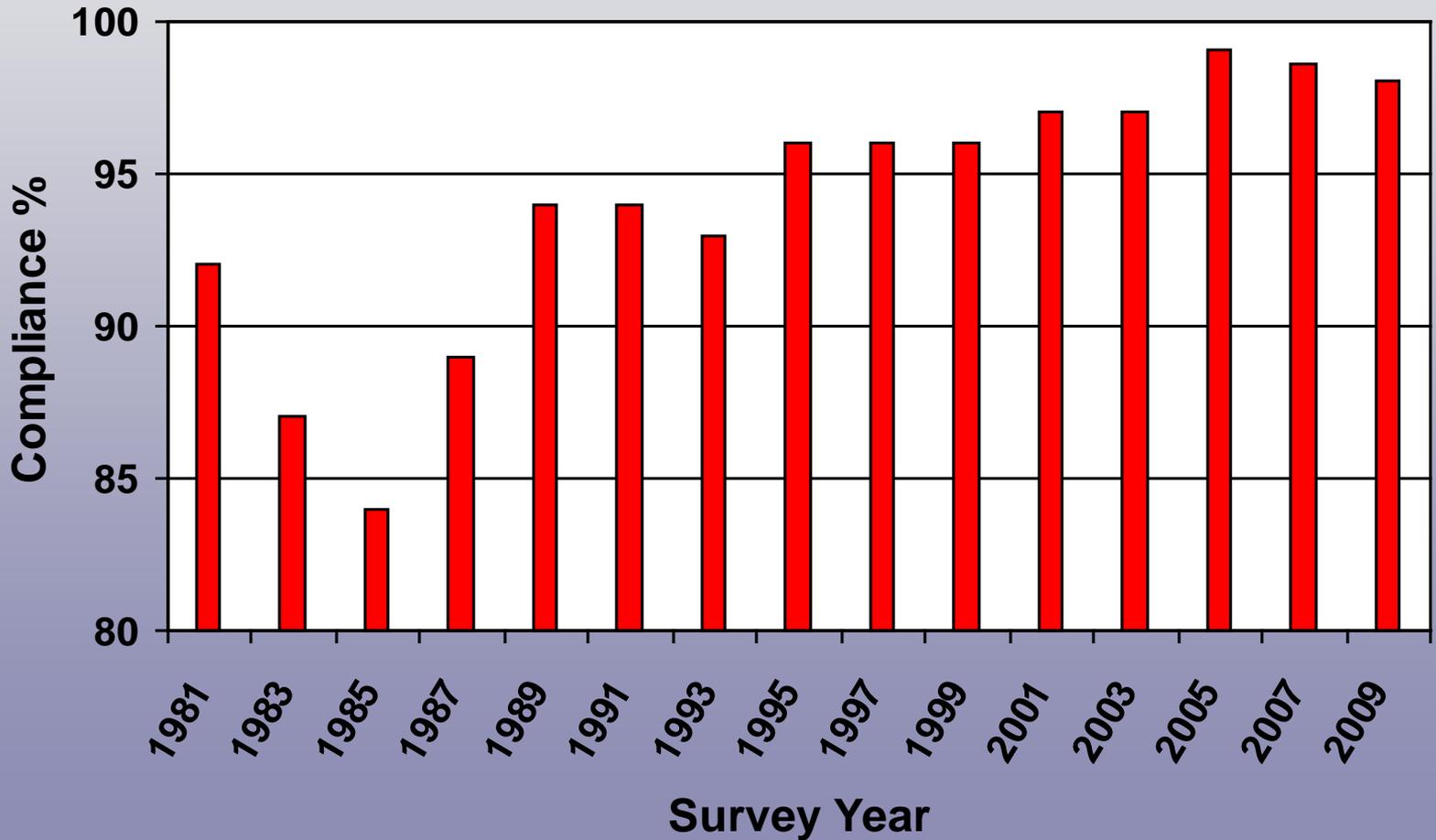


Silviculture BMP Compliance Monitoring

Overall Average Compliance = 94%



**B
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**So We Know Silviculture
BMPs Are Being Used and
Are Essential to Good Land
Stewardship, But What Are
The Consequences if a
Forest Landowner Doesn't
Follow Them?**

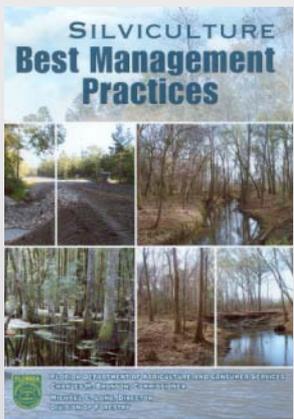
State Water Quality Standards Violations

- **Violations are regulated by DEP, Water Management Districts, and some local governments.**
- **Violations can result in LARGE Fines and Stop Work Orders**
- **Also a potential backlash during the TMDL process for impaired watersheds.**



Silviculture BMP Rule





Rule 51-6 F.A.C.

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Adoption of the Silviculture BMP Manual into Florida Administrative Code Occurred on February 11, 2004



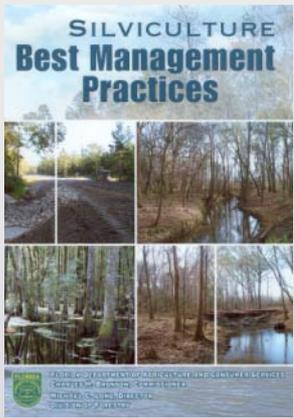
Protects Forestry Operations Under the Right to Farm Act



Provides Forest Landowners the Opportunity to Receive a Presumption of Compliance with State Water Quality Standards



‘Presumption of Compliance’



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‘S To Be Eligible for the ‘Presumption of Compliance’ Under Rule 5I-6 F.A.C. the Forest Landowner Must:



Submit a Notice of Intent to Use BMPs Form to DOF (one time submission for the property, until ownership changes)



Implement BMPs on ALL of your Forestry Operations



Maintain “Records” to Verify BMP Compliance



Follow the Forest Management Link to the Hydrology Webpage

SILVICULTURE

NOTICE OF INTENT TO IMPLEMENT

In accordance with Chapter 403.067(7)(d) F.S. and Rule 5I-6.004 FAC, the following information is hereby submitted as verification of my intent to implement silviculture Best Management Practices.

Forest Landowner _____ Acres _____

Property Tax ID# (s) _____

County(s) _____

Authorized Local Contact _____

Address _____

Phone _____

Complete the attached silviculture Best Management Practices Checklist and submit it along with this Notice of Intent to the Department of Agriculture and Consumer Services, Division of Forestry at the address listed below. **Keep the completed Checklist in your files along with a copy of your completed Notice(s) of Intent.**

Signature of Forest Landowner or Authorized Agent

Date

Mail this notice and the attached Checklist to: **FDACS – DOF**
Attn: BMP Program
3125 Conner Blvd
Tallahassee, FL 32399-1650

SILVICULTURE

Best Management Practices Checklist

Instructions: Place a check beside each sub-category of Best Management Practices (BMP) that are currently being implemented. For those BMPs that are not currently being implemented but planned for the future, enter the year that you expect BMP implementation to occur beside each category and/or sub-category. Use the silviculture BMP Manual for details on individual practices within each sub-category.

Special Management Zones

- _____ Primary Zone
- _____ Secondary Zone
- _____ Stringer

Wetlands

- _____ Drainage and Conversion
- _____ Roads
- _____ Harvesting
- _____ Skidding

Canals

- _____ General
- _____ Maintenance

Sinkholes

- _____ General

Forest Roads

- _____ Planning
- _____ Construction
- _____ Drainage
- _____ Maintenance

Stream Crossings

- _____ General
- _____ Culverts
- _____ Hard Surface Crossings

Timber Harvesting

- _____ Skid Trails
- _____ Slash Disposal

Site Preparation and Planting

- _____ General

Fireline Construction

- _____ General

Pesticide and Fertilizer Use

- _____ Pesticides
- _____ Fertilizer

Waste Disposal

- _____ Waste Oil
- _____ Solid Waste

Wet Weather Operations

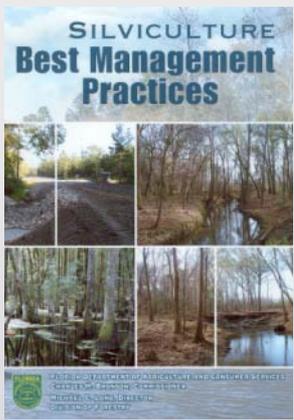
- _____ General

Emergency Operations

- _____ Wildfire
- _____ Insect and Disease

Primary Zone Exceptions

- _____ Exception #1
- _____ Exception #2
- _____ Exception #3a
- _____ Exception #3b



BMP Notice of Intent

B



Submission is Voluntary for Landowners – But if Not Submitted then they do Not Qualify for the Presumption of Compliance with State Water Quality Standards even if Silviculture BMPs are Followed

M

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Currently Over 5.3 Million Acres of Private Non-Industrial, Industrial, and Public Lands are Signed Up





Questions?