

Best Management Practices for the Protection of Water Resources in Florida

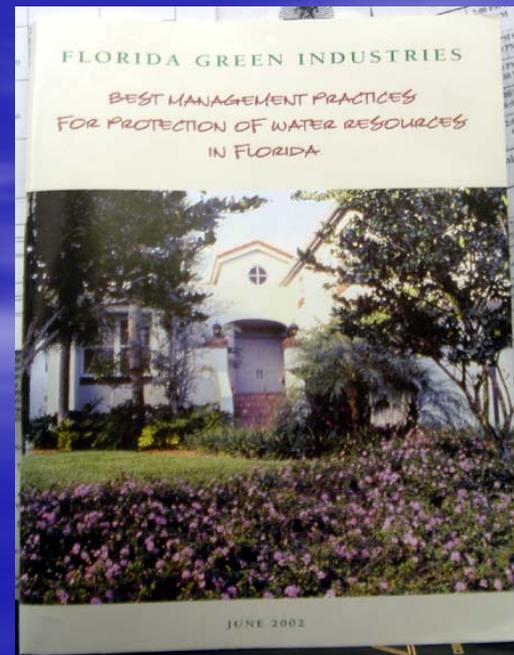
Help Keep the St. Johns River
Healthy



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What Are BMPs

- Standards
- Research Based
- Flexible to Level of Maintenance Desired
- Voluntary



Why Use BMPs?

- **Reduce Non-point Source Pollution**
- **Save Money**
- **Support a Healthy Environment**

How

By using the correct amount of fertilizer and water in the correct manner to benefit the landscape without a negative impact on the environment

BMP Objectives

- Reduce off-site transport of sediment, nutrients, and pesticides through surface water or ground water



BMP Objectives

- Use appropriate site design and plant selection
- Use appropriate rates and methods of applying fertilizer and irrigation



BMP Objectives

- **Use Integrated Pest Management (IPM) to minimize pests and apply chemicals only when appropriate**



What Legal Impact Do the BMPs Have?

- BMPs are not required by law, but they are endorsed by DACS and DEP
- Target audience is not the property owner, but the service providers
- BMPs for property owners follow same guidelines

BMP Goal

- **Provide a state-wide uniform educational program about BMPs and environmental sensitivities**
- **Provide guidance for local governments on landscape management issues**
- **Increase public awareness of environmental impacts of landscape management**

Fertilizer Best Management Practices

- Fertilizer storage
- Soil testing
- How to properly apply fertilizer
- Fertilizer source (quick-release vs. slow-release)
- Application amount
- Application timing

Fertilizer Storage

- **Store fertilizer in areas protected from rainfall**
- **Load fertilizer away from wells or bodies of water**
- **Store nitrates away from flammable substances such as solvents, fuels, or pesticides**
- **Keep fertilizer and pesticides in a locked area**

Know Your Soil

- Soil testing should provide the basis for determining a fertility program
- This includes pH testing as well as extractable levels of macro and micronutrients



Proper Fertilizer Application

- Do not to apply fertilizer to:
 - Sidewalks
 - Roadways
 - or other impervious surfaces where they might wind up in the storm drain



Proper Fertilizer Application



**Leave a “Ring of Responsibility”
around waterways**

Proper Fertilizer Application

- Use a deflector shield when fertilizing near water
- 3 feet – without a shield
- 10 feet– with a shield



Proper Fertilizer Application

- **Water in fertilizer** with only enough water to move granules off of leaves (~1/4" water)



Application Amount

- **Depends on percentage slow-release N**
 - No more than ½ lb. N 1000 ft² if quick-release
 - Up to 1 lb. N 1000 ft² if slow-release
- **Better to apply smaller amounts more frequently for optimal physiological functioning of turf**

Application Timing

- Grass grows based on temperature and daylight hours
- Reduce N applications during summer growth (use iron to stay green without the growth)
- Varies depending on where in state, soil types, and turfgrass species

Best Management Practices

- When followed can provide a green landscape without negatively impacting the river or the surrounding environment
- And are cost effective for both the property owner and the service provider

For more information on Best Management Practices for Protection of Water Resources in Florida contact

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