Water Efficient Landscapes
Sustainable Building/New Development

Pierce Jones
Program for Resource Efficient Communities
University of Florida
We promote application of design, construction and management practices that minimize environmental degradation and make more efficient use of energy, water and other natural resources in master planned residential communities.
Program for Resource Efficient Communities

Active specialists affiliates:

- Glenn Acomb – Landscape Architecture
- Mark Clark – Soil & Water
- Michael Dukes – Ag & Biological Engineering
- Ed Gilman – Environmental Horticulture
- Barbra Larsen – Environmental Horticulture
- Tom Ankersen - Law
- Others
Growth Trends

Context
Growth Trends

Population - Florida:

- 1980 ~10,000,000
- 2005 ~17,000,000
- 2030 ~28,000,000
Growth Trends

Building Permits - Florida:

- 2002 ~127,000
- 2003 ~155,000
- 2004 ~185,000
- 2005 ~208,000
- 2006 ~146,000
Welcome to The Bonita Bay Group

The Bonita Bay Group™ offers exceptional community living with its environmentally sound development philosophies and innovative designs. Residents enjoy traditional neighborhood gathering spots, recreational facilities and access to community parks that blend seamlessly with surrounding habitats.

Distinctive Lifestyle Experiences

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Growth Trends
Growth Trends
South Pasco County
Growth Issues

Water Supply
Water Supply

Florida Freshwater Withdrawals
(in million gallons per day)

- Ground water
- Surface water

Source: U.S. Geological Survey

Tampa Bay Water Desalinization Facility
Water Supply
Water woes hit development

EDITOR’S NOTE: This is the first in a series examining how the region’s drinking water is running low.

BY SUSAN STABLEY

South Florida has run out of natural sources of drinking water and will likely experience halted development due to the problem.

Major real estate projects in the tri-county area must be curbed until alternative sources of water can be developed, according to the state. Already, it has told Miami-Dade County to reject 17 large-scale projects because of drinking water scarcity.

And the creation of alternative water sources will not happen soon. The work will cost of hundreds of millions of dollars and can take decades to complete, according to estimates from regional and local water officials.

“For us to go back into a built environment is a very expensive proposition,” said Doug Yoder, assistant director of Miami-Dade County’s water and sewer department.

Last week, Gov. Jeb Bush vowed to make South Florida confront its water issues before the state will approve any more large projects.

“It makes no sense to develop west and west and west without the adequate development of infrastructure and water supply,” Bush said at the Urban Land Institute’s Symposium on Regional Cooperation on March 17.

See WATER, Page 62
Irrigation
Irrigation

Soil Moisture Sensor Controller
Demand for Florida homes permitted in 2005:

- Total Water Use: ~20,800,000,000 Gal/yr
- Irrigation: ~10,400,000,000 Gal/yr
- Sensor Controlled: ~5,020,000,000 Gal/yr
- “Savings”: ~260,000,000 $/yr
200,000 Gallon Water Tower
Certification/Incentives
Certifications/Incentives

- Audubon International
- Florida Green Building Coalition, Inc.
- Florida Yards & Neighborhoods
- University of Florida IFAS Extension
- Green Built Homes of Florida
- Florida Water
- WE SELL ENERGY STAR

Save money. Save energy. Save resources.

Stewardship starts at home.
Certifications/Incentives

Beazer Homes

Florida Water
Stewardship starts at home.

Green Built Homes of Florida
Save money. Save energy. Save resources.

JEA

NEFBA
Northeast Florida Builders Association
Certifications/Incentives

• Mount Dora requires new projects to install Florida Friendly landscapes
• East Central Florida Regional Planning Council includes Florida Water Star as a standard recommendation
• Deland offers a discount on impact fees (15%) for Water Star qualified homes
Outreach
Madera

Low Impact Landscapes
Idylwild

Conventional Practice
Direct Consulting

Projects Working with PREC on LID Practices

Active/Scheduled:

- Madera
- Sorrento Village
- Sugarloaf
- Elkton
- Hartwood Marsh
- Hancock Place
- Restoration
- Clarcona Reserve
- Spears Crossing
- Grantline
- Mercedes*
- Big Cypress
Water Efficient Landscapes

Summary
Hills of Minneola

ECFRPC Recommendations:
• No St Augustine grass
• Half of all models 100% xeriscaped
• All homes Florida Water Star qualified
• SJRWMD conservation plan review prior to site plan approval
Bella Colina

Low Impact Landscape
Summary

Florida’s Development Environment:
• New growth happens fast
• Tested, better practices are available
• Certification programs are in place
• Plenty of room to improve quickly
• Developers are not resistant
Summary

Promoting Low Impact Development Practices:
• Support research/evaluation
• Integrate into certification programs
• Couple certifications to incentives
• Educate built environment professionals
• Monitor performance and enhance practices
Frances Daniels and Frances Dinsmore