

Alachua County Landscape Irrigation Efficiency Code

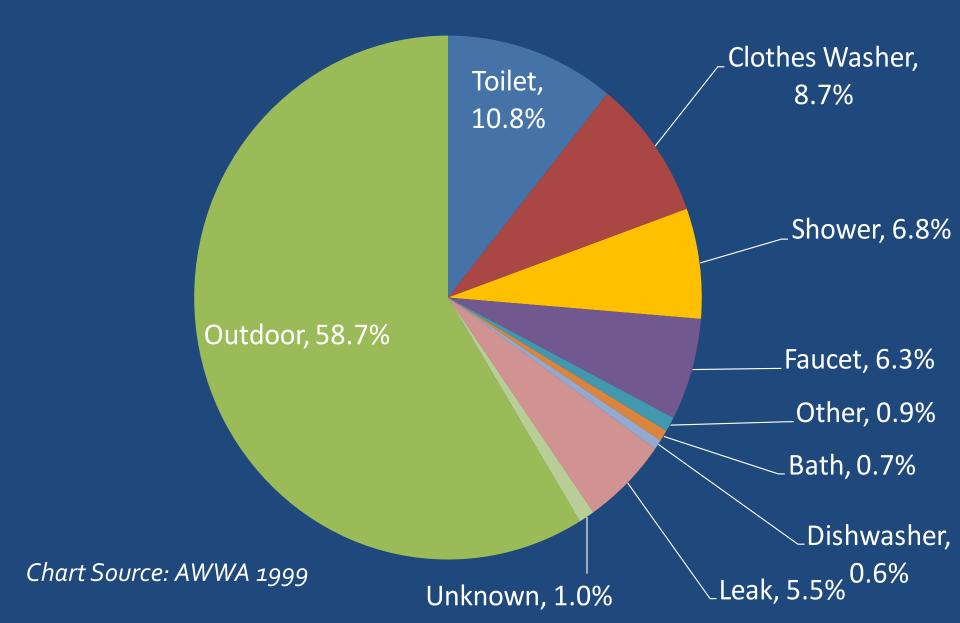






July 27, 2015

Residential Water Use



Water Use

There are at least 14,000 landscape irrigation systems within Alachua County

Average daily water use in newer homes:

- ♦ 358 gallons- with irrigation system
- ◆ 190 gallons- without irrigation

90% of new homes (in GRU's service area) have irrigation systems

Local Government Tools for Reducing Outdoor Water Use

- Conservation rates
- Public education
- Irrigation schedule restrictions
- Change development trends
 - Florida Water Star Program
- Landscape irrigation efficiency code/design standards





Proposed Landscape Irrigation Efficiency Code





Stakeholder Outreach

- Builders Association of North Central Florida (BANCF) Liaison meetings (2014 - 2015)
- Presentations at stakeholder meetings
- Joint City/County Water Policy Committee (4/13/15)
- League of Cities Meeting (5/26/15)
- County Manager letter to City Managers (6/1/15)
- County Manager email to City Managers (7/9/15)
- Hawthorne (7/7/15), High Springs (7/9/15),
 Newberry (7/13/15), Alachua (7/27/15), Public
 Workshop for Cities (8/5/15), Gainesville (8/6/15)

Intent

- Reduce discretionary outdoor water use
- Improve water quality by reducing lawn chemical pollution from inefficient irrigation





Water Quality

- Numerous water bodies in Alachua are impaired by nitrogen and phosphorus
- Residential fertilizer is one of the main sources
- Proper irrigation management is key to reducing nutrient pollution

Photo by John Moran - May 2012



Jurisdiction and Applicability

- Applies within Alachua County (including municipalities)
- All new residential/commercial irrigation systems (including open space and common areas)
- Does not apply to temporary irrigation for establishment or to Florida Water Star Certified properties

Alachua County Charter

 Voter approved referendum November 11, 2000 amended County Charter

 Establishes County authority to set minimum standards for air and water resources protection

 Recognizes city authority to establish stricter standards

Irrigation Professional Registration

- All irrigation professionals installing and/or maintaining irrigation systems must register with Alachua County by November 1, 2015.
 - Business name, contact information, certifications
 - No registration fee proposed

Irrigation System Approval

All new irrigation systems require County approval

- Proposed effective date March 1, 2016
- Submit completed Application Review Form, irrigation site sketch, and fee
- County will review and send approval letter
- System inspection

Irrigation System Inspection

All new systems must be inspected by **one** of these methods:

- A. <u>Self inspection</u> by irrigation contractors with Irrigation Specialty Contractor Licensure by the State of Florida or by Florida Water Star Accredited Professional, or
- B. 3rd Party Inspection by Florida Water Star Certifiers, or
- C. <u>Inspection by Alachua County</u> (inspection fee required)

Design Standards

 High volume irrigation shall not exceed 60% of landscaped area (applicable on lots over 1/8 acre).

 Maximum irrigated area of residential lots shall not exceed 0.5 acres.



Spray head

Rotor

Design Standards

- No high volume for trees and shrubs
- Separate zones for spray heads and rotors
- Separate zones for turf and mulched areas
- Pressure regulating spray heads
- No overspray to impervious areas



Completion of Installation

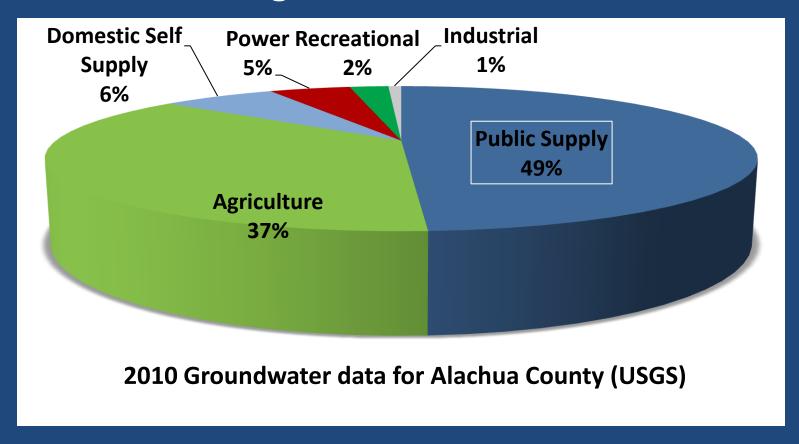
- Irrigation professionals must conduct final testing
- Must provide property owner with:
 - Site sketch
 - Self inspection form
 - Manual for irrigation controller
 - Maintenance schedule and recommendations

Maintenance of Irrigation Systems

- Annual inspections for leaks and performance
- Rainfall shut off devices properly functioning
- Irrigation systems with known leaks shall not be operated until corrected
- Systems must be re-adjusted to meet irrigation timing restrictions 60 days after installation

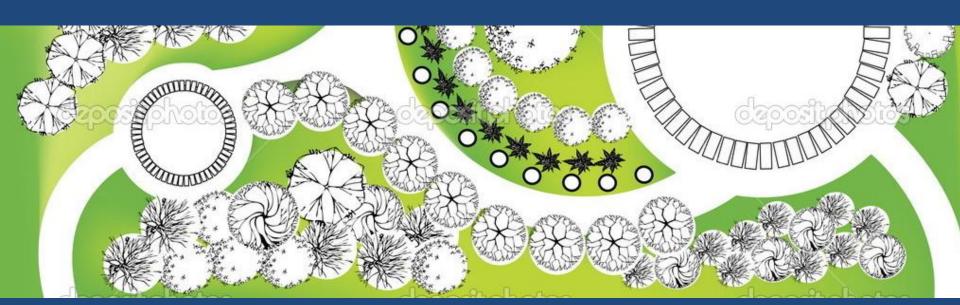
Exemptions

- Agricultural activities
- Vegetable gardens and fruit trees
- Athletic Fields, golf courses, cemeteries



Alternative Compliance

 Consideration of alternative compliance methods for unique site features, innovative design, or extraordinary hardship



Code Implementation

 County will offer training opportunities for local irrigation professionals.

 Violations of the code will lead to written warnings, fines, and possibly court appearances.

 Retrofitting of non-compliant irrigation systems may be required to achieve compliance.

Return on Investment

- Water utility bill savings will offset start up costs
- Estimated \$700 \$1000 per yard for more efficient irrigation and landscaping
- Estimated 2 to 3 year payback period
- Property owner may choose to install higher value landscaping that is not required by the Code



Planning NOW, so there is adequate water for the future.

California Drought
Photo Credit: NY Times

Contact

Stacie Greco, Water Conservation Coordinator
Alachua County Environmental Protection Dept.
352-264-6829
sgreco@alachuacountywater.us

www.AlachuaCountyWater.org