



[floridawaterstar.com](http://floridawaterstar.com)

# Florida Water Star<sup>SM</sup> Existing Building Commercial and Institutional Criteria

## Program and Criteria Description

This program is for existing commercial and institutional projects and provides water-efficient options for indoors and existing landscapes. There are two paths to certification.

### Path A: Self-Prescribed

(Only applicable for applicants with similar building use pre- and post-retrofit.)

1. Submit 12 months of water use data.
2. Conduct BASIC water audit procedures outlined in the [Water Efficiency Self-Conducted Water Audit Guidebook](#) for all applicable areas of water use. Worksheets from the guidebook will be submitted as proof of conducting audit procedures.
3. Create and implement a plan to reduce total water use by 30%.
4. Demonstrate, using billing or meter data, total water savings of 30% compared to the previous 12 months.

### Path B: Criteria Directed

Meet the criteria referenced below; recognition by section is an option, with final certification when all four sections are complete. This can be achieved over a period of time or simultaneously.

Please refer to the Florida Water Star<sup>SM</sup> Technical Manual for additional information on the criteria and practices. Florida Water Star<sup>SM</sup> is a service mark of the St. Johns River Water Management District.

General Information			
Applicant Information		Project Information	
Name		Project name	
Company		Address	
Address		City/county	
City/county		Owner phone	
Phone		Owner email	
Email		Number of occupants	
		Water Source	

## Existing Building Commercial and Institutional Criteria

### Documents that must be provided to the Florida Water Star<sup>SM</sup> certifier prior to certification

Required Submissions			
	Yes	No	NA
Water use billing data or potential water use calculations (path A only)			
Landscape and irrigation drawing			
HVAC compliance document (attached)			
Schedule of indoor fixtures, including performance specifications			
Process water description, if applicable			

Criteria				
Section 1 — Landscape and Irrigation		Yes	No	NA
<b>REQ</b>	Landscape and irrigation drawing (see technical manual for details).			
<b>LC 1</b>	No invasive exotic plant species are in the landscaped area.			
<b>LC 2</b>	Root balls for new plants are at least 2.5 feet on center from the foundation of structure.			
<b>LC 3</b>	All new plant selections are compatible with site-specific growing conditions, such as sunlight, soil type and salinity.			
<b>LC 4</b>	Trees will provide shade to a minimum of 30% of the total landscaped area at maturity.			
<b>LC 5</b>	Organic mulch is applied to a depth of 2 to 4 inches, leaving a 2-inch space around base of plant.			
<b>LC 6</b>	All new plants are spaced for growth to maturity.			
<b>IRC 1</b>	Potable sourced irrigation water shall be metered.			
<b>IRC 2</b>	All newly installed sprinkler heads are located 2 feet from structures.			
<b>IRC 3</b>	Irrigation zones for turf grass and landscaped beds are separate.			
<b>IRC 4</b>	Irrigation system is free from leaks.			
<b>IRC 5</b>	Sprinklers in low-lying areas have check valves.			
<b>IRC 6</b>	Sprinklers rise above turf grass height.			
<b>IRC 7</b>	Head spacing does not exceed 50% of the nozzle throw diameter			
<b>IRC 8</b>	Application occurs in proper spray patterns, minimizing overspray on impervious surfaces.			

## Existing Building Commercial and Institutional Criteria

Criteria				
<b>IRC 9</b>	Precipitation rates for all sprinklers within a zone are matched. (Sprinklers and emitters shall be spaced in accordance with the product manufacturer's recommendation for matched precipitation rate for sprinklers operating together in the same zone.)			
<b>IRC 10</b>	All sprinkler heads with spray nozzles (non-rotary) are pressure-regulated at the head or zone valve.			
<b>IRC 11</b>	The irrigation schedule is set in compliance with the water management district watering restrictions.			
<b>IRC 12</b>	A device with rain shut-off capabilities is installed in an operable location and is functioning.			
<b>Section 2 — HVAC</b>		<b>Yes</b>	<b>No</b>	<b>NA</b>
<b>HVAC 1</b>	Use the lowest-quality water supply available for HVAC cooling. Where non-potable water is used, it must conform to the water quality and treatment requirements of the jurisdiction having authority and the manufacturer's recommendations.			
<b>HVAC 2</b>	Prohibit the use of once-through cooling using potable water.			
<b>HVAC 3</b>	No visible leaks and minimal scaling and bio-foul on water-cooled HVAC unit equipment.			
<b>HVAC 4</b>	Equip cooling towers, evaporative condenser and evaporative fluid coolers with makeup water and (bleed) blowdown meters, conductivity controllers and overflow alarms.			
<b>HVAC 5</b>	HVAC cooling towers, evaporative condensers and fluid coolers shall be equipped with efficiency drift eliminators that produce drift losses of not more than 0.002% of the circulated water volume for counter-flow system and 0.005% for cross-flow towers.			
<b>HVAC 6</b>	Operate on not less than five cycles of concentration is required for air-conditioning cooling tower makeup water having a total hardness of less than 11 grams per gallon (gr/gal) (188 milligrams per liter [mg/L]), expressed as calcium carbonate.			
<b>HVAC 7</b>	Operate on not less than 3.5 cycles of concentration is required for air-conditioning cooling tower makeup water having a total hardness equal to or exceeding 11 gr/gal (188 mg/L), expressed as calcium carbonate.			
<b>Section 3 — Indoor</b>		<b>Yes</b>	<b>No</b>	<b>NA</b>
<b>REQ</b>	Schedule of indoor fixtures, including performance specifications.			
<b>INC 1</b>	All toilets are either low-flow or high-efficiency; 3.5 or 5 gallons/flush replaced with 1.6 or 1.28 gallons/flush with a UNAR MaP rating 350 grams/flush or higher.			
<b>INC 2</b>	All urinals are high-efficiency, 0.5 gallons/flush if existing or 0.125 gallons/flush if newly installed. WaterSense®-labeled urinals comply.			
<b>INC 3</b>	Single showerhead with flow rate of 2 gallons/minute or less, or WaterSense®-labeled.			

## Existing Building Commercial and Institutional Criteria

Criteria				
<b>INC 4</b>	All non-metering lavatory sink faucets have flow rates of 0.5 gallons/minute or less, and metering faucets have flow rate of 0.25 gallons/minute.			
<b>INC 5</b>	All pre-rinse spray valves use 1.25 gallons/minute or less or WaterSense® labeled.			
<b>INC 6</b>	All new non-industrial dishwashers are ENERGY STAR®-labeled.			
<b>INC 7</b>	All new non-industrial clothes-washers are ENERGY STAR®-labeled.			
<b>INC 8</b>	All new commercial ice makers are ENERGY STAR®-labeled.			
<b>Section 4 — Business Process Water (Water use other than landscape, indoor and HVAC)</b>		<b>Yes</b>	<b>No</b>	<b>NA</b>
<b>REQ</b>	Process water description.			
<b>PW1</b>	All process water use is evaluated/audited.			
<b>PW2</b>	Leak assessment is conducted.			
<b>PW3</b>	Employee education program developed and implemented (including ongoing leak detection and messaging that water savings is important).			
<b>Section 5 — Other Water-efficiency Features (include details of any other features not referenced above for additional recognition)</b>				