

NICOLE BROQUET
ENVIRONMENTAL EDUCATION COORDINATOR
MARINE RESOURCES COUNCIL

Who We Are

- Charitable organization founded in 1983 by a group of Florida Tech professors
- Dedicated to protecting and restoring all 5 counties of the Indian River Lagoon through:
 - Science
 - Restoration
 - ► Education

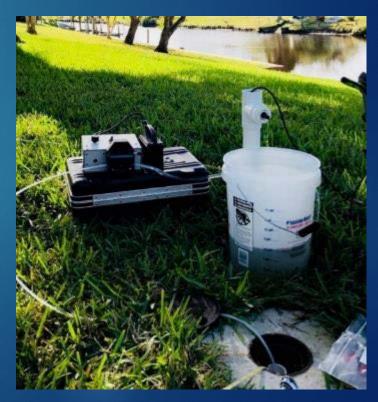


Science

- ► LagoonWatch
 - Tests for dissolved oxygen, salinity, pH, water clarity, wind direction and wave size
- Muck Finders
 - Measures muck depths to help counties prioritize dredging projects
- Ground Water
 - Monitors groundwater throughout the County to evaluate nutrient loading







Restoration

- Recently expanded nursery capacity!
- Mangrove Workshops
 - Monthly maintenance
- Mangrove Shoreline Plantings
 - ▶ 2018: almost 1 mile of shoreline
 - ▶ 2020: will plant 900ft



Education

- Visitors
- ► Lagoon Loyal
- Summer camp
- ▶ Field trips
- Brown Bag Presentations
- ► Rain Barrel Workshop
- Assemblies, conferences, meetings





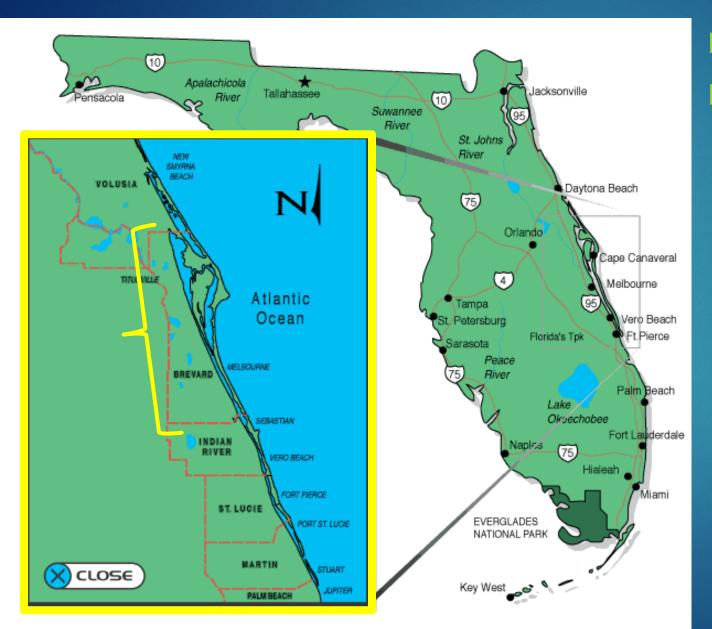








Indian River Lagoon (IRL)

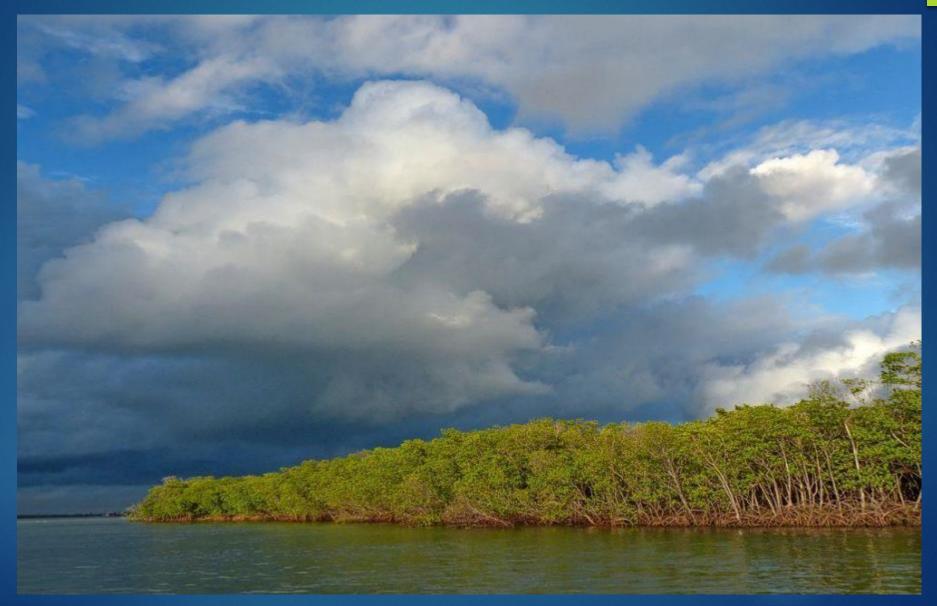


- > 30% of Florida's east coast
- ▶ 156 miles long
 - ► OVER 2,745 FOOTBALL FIELDS!!
 - Going to Disney World and Back!

The Lagoon supports more species than almost anywhere else on Earth



Once a naturally resilient system







But we have changed the Lagoon...







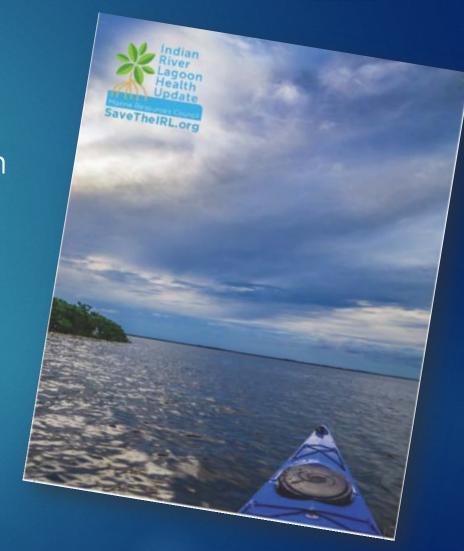
Indian River Lagoon Report Card

- 20+ years of state monitoring data
- Evaluates water quality and sea grass health
- Calculates scores by comparing observed values to regulatory standards
- Translates science for the community

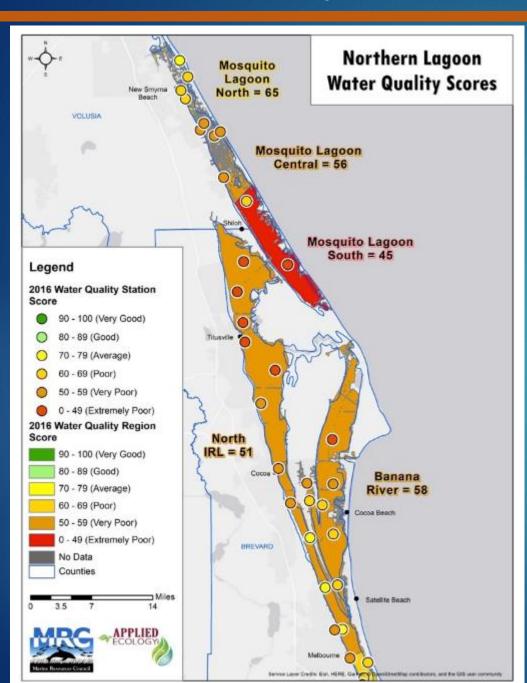
www.SaveTheIRL.org

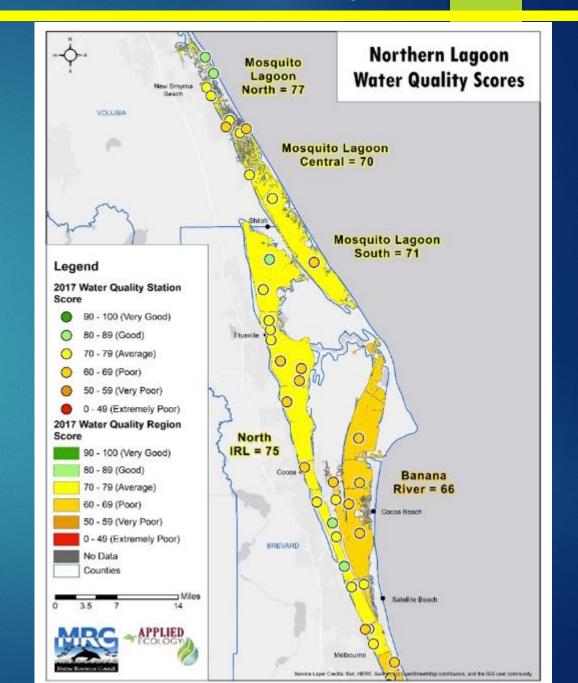




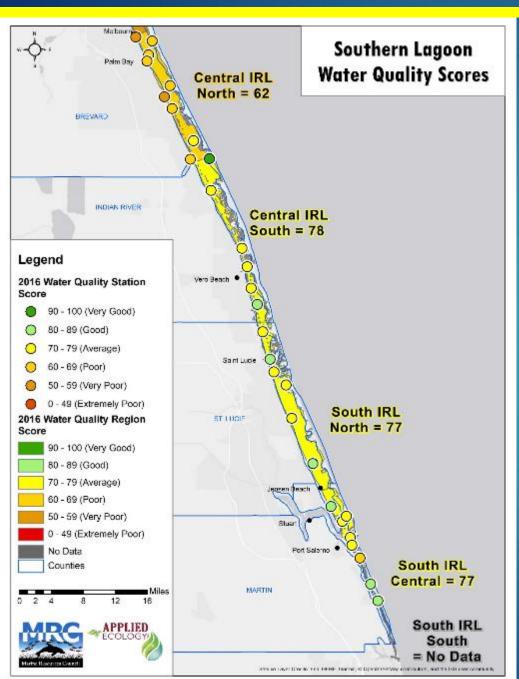


2017 Water Quality Scores

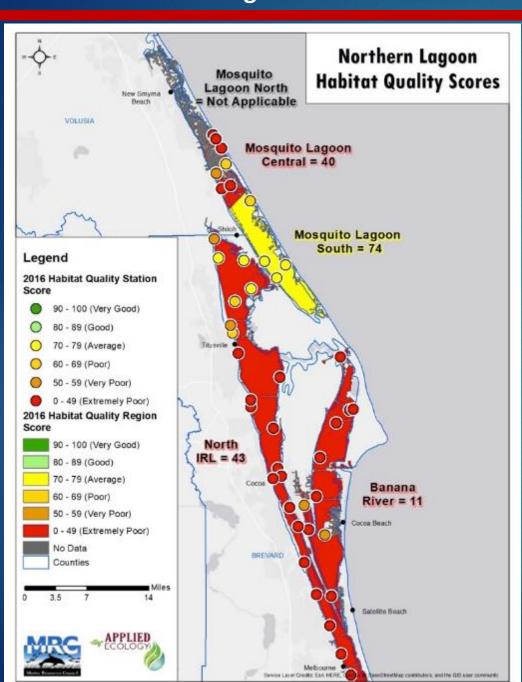


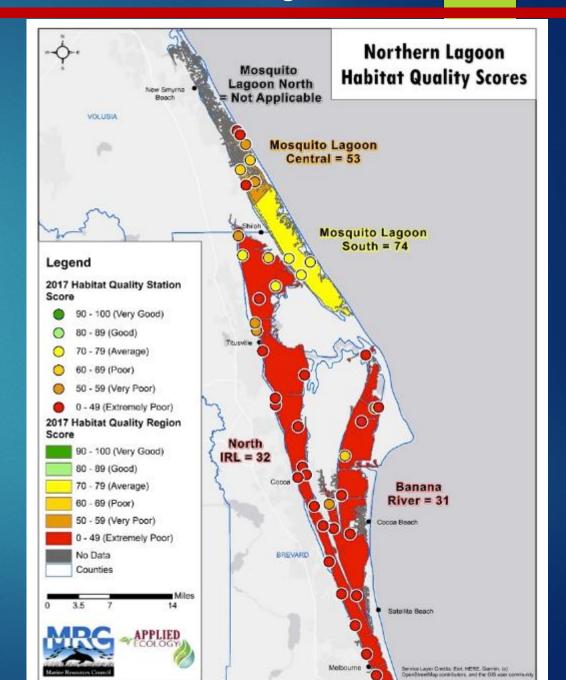


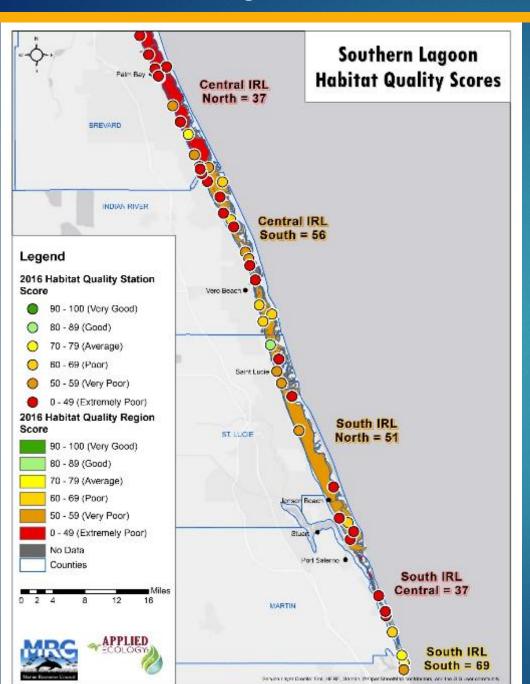
2016 Water Quality Scores

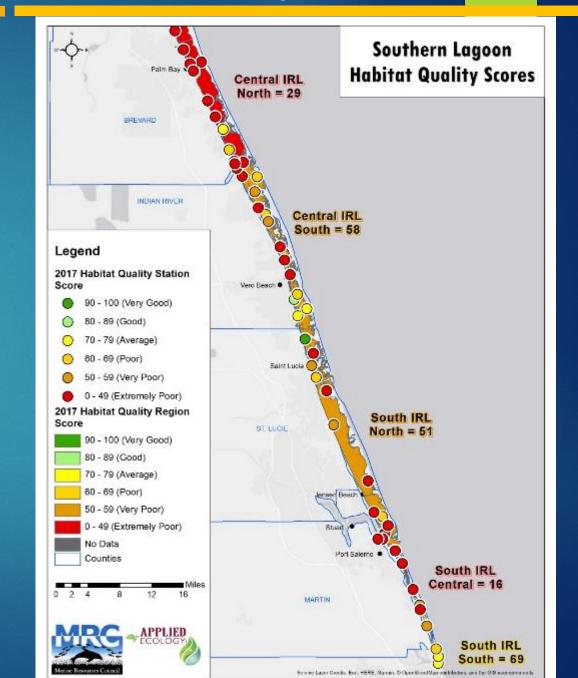






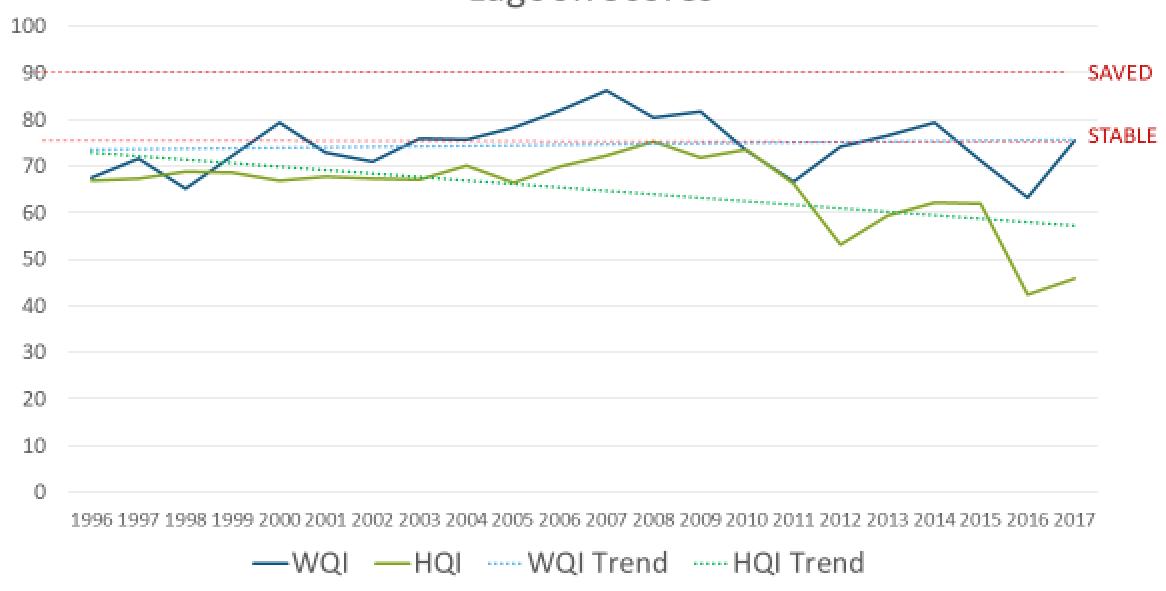


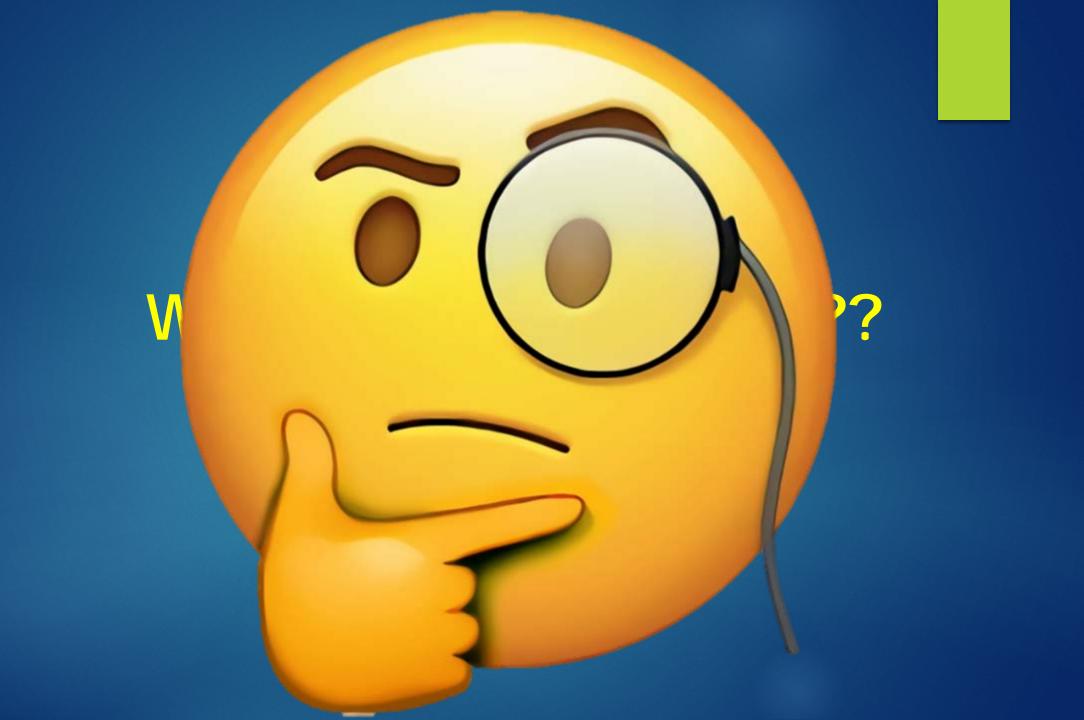




Is the Lagoon's Health Improving?

Lagoon Scores





Become Lagoon Loyal



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For Businesses

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Sign Up



LET'S BE CLEAR... A HEALTHY LAGOON STARTS WITH YOU.

Every year, Brevard County residents contribute thousands of pounds of excess algae-feeding nutrients to the Indian River Lagoon by polluting both groundwater and stormwater.

What actions produce these nutrients? How can you reduce your lagoon footprint?

BECOME LAGOON LOYAL



Skip the Fertilizer



- DO NOT apply fertilizer in the summer
 - June 1-Sept 30
- DO NOT apply within 10' of water



Grass Clippings

- Grass is full of excess nutrients that cause algae blooms!
- Reuse grass clippings:
 - Lawn fertilizer
 - Mulch for garden beds
 - Compost material





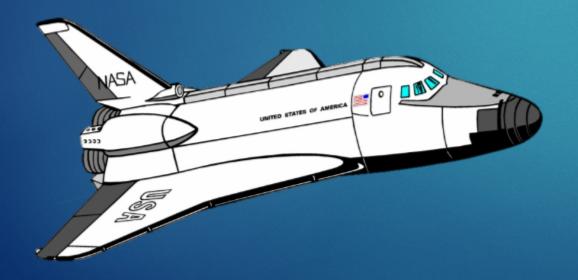
Hire Responsible Professionals

- Divert mower chute away from permeable surfaces and waterways
- Blow grass clipping back on the lawn
- Apply fertilizers and pesticides only when needed



Pick Up After Your Pet!

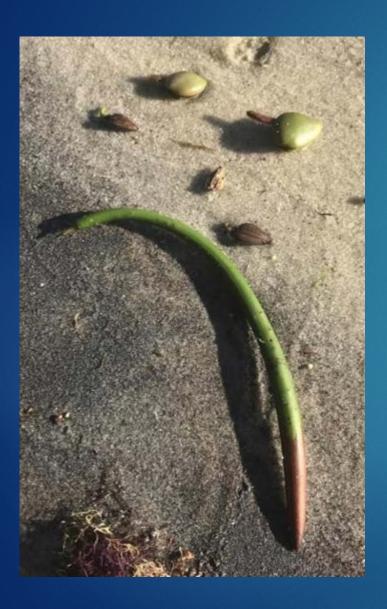
- 102 tons of dog waste are left in the lagoon watershed every day!!
 - Dog waste contains harmful bacteria and parasites
 - ► Can enter the IRL through stormwater







Start Your Own Mangrove Nursery!





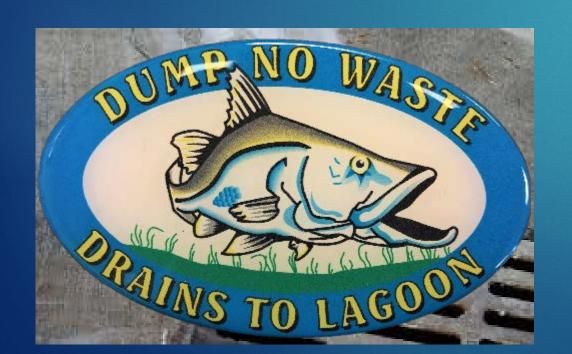


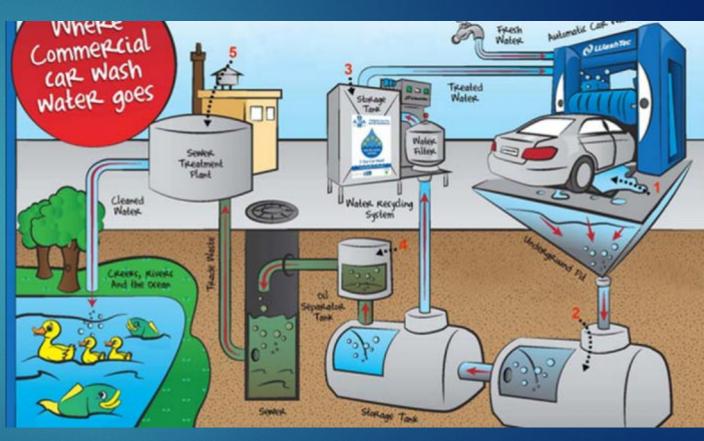




Wash the Car Right

- Commercial car wash
 - Must properly dispose of wastewater
- ► Home car wash
 - Wash on the grass or gravel
 - Do not pour soap into storm drains!

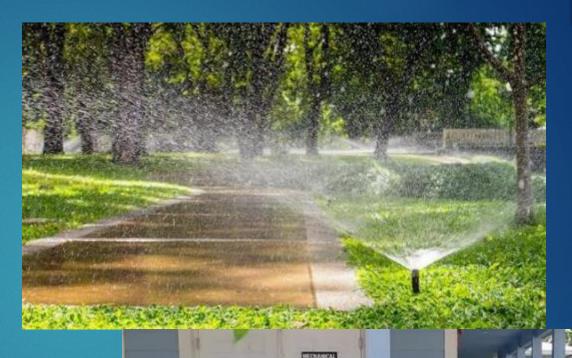




Reduce Your Water Use

- Water the grass less
- Don't water the sidewalk
- Use a spray nozzle
- Use a rain barrel

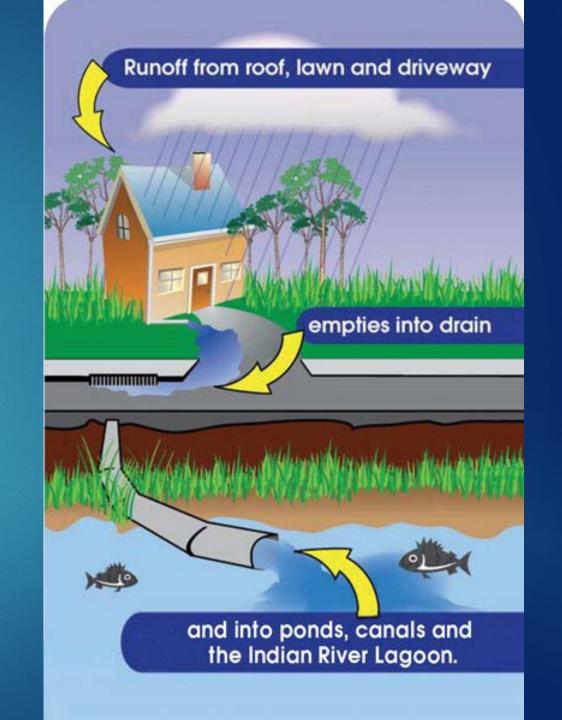






Rain in Brevard County

- Average rainfall: 54in/yr
 - ▶ US average: 38in/yr
- 40' x 80' roof will produce over 100,000gal/yr
- ► Month of April: 2.1in of rain
 - ► Runoff: 4,189gal
 - ► Rain Barrels: 76, 55-gal rain barrels



Our Rain Barrels

- ▶ 55-gallon food grade barrels
- ► Entire tops cut off
- Covered with mosquito netting
- Attached with recycled bicycle tire
- ▶ 3/4 inch spigot





Installation

- Proximity to use location
- Downspout/V in Roof
- Out of direct sunlight
- Solid level surface
 - ▶ Gravel bed, paving tiles, bricks, etc
- Raise elevation
 - Two levels of cinder blocks with paving tiles
 - Pre-made stands from hardware retailers
 - Wooden stands
 - ▶ Higher the barrel, better the flow



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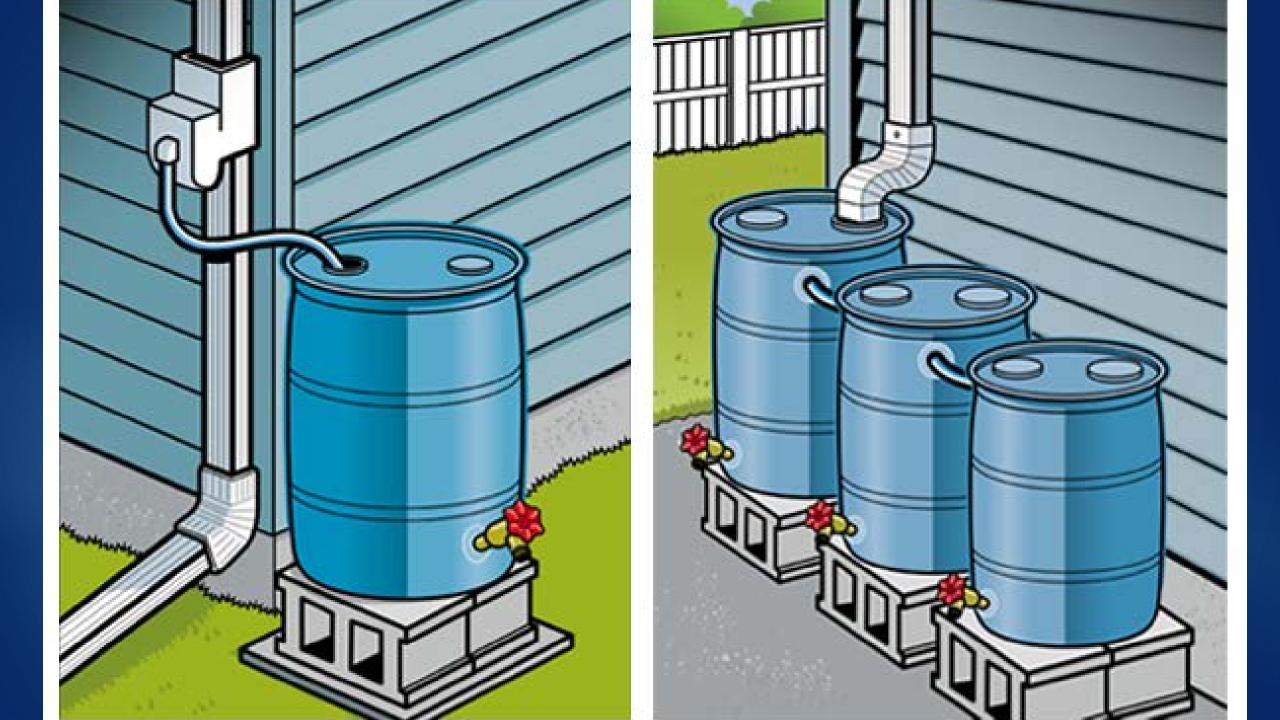


- Adjust downspout
 - Determine if straight cutting or adding a flexible downspout extension
 - Use hacksaw or tinsnips
 - Secure with metal screws or zip ties if needed
- Determine if you need an overflow hose/diverter system
 - Direct overflow away from home
 - Add additional rain barrel(s)
 - Soaker hose







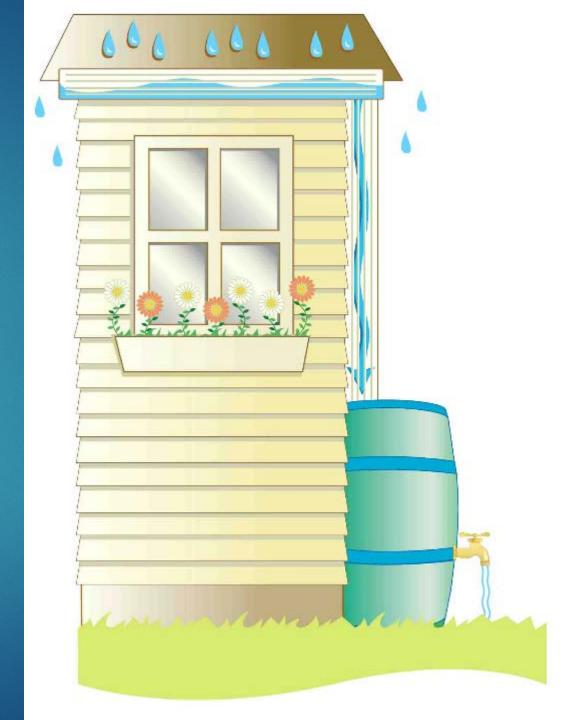






Maintenance

- Drain barrel monthly if not regularly using water
- Keep your gutters clean
- Keep barrels/spigot free of debris
- Algae growth
 - ▶ Dump, rinse, small capful of bleach
- Check for leaks
 - Use aquarium caulk
- Once a year:
 - Drain, rinse, scrub with soap/water or bleach
 - ▶ Let dry



Usage

- Watering grass/flower gardens
- Watering house plants
- Filling bird baths, dog pools, ponds
- Washing your car
- Watering vegetable gardens?
 - Rutgers study
 - ▶ 3% bleach solution
 - ▶ 1 oz of bleach for 55-gal
 - Apply to soil of vegetable gardens, not the plant
 - Water in the morning



Rain Barrel Pick Up Locations

Rockledge Gardens 2153 US-1, Rockledge, FL 32955 Monday-Saturday, 9am-5pm Sunday, 11am-4pm Lagoon House 3275 Dixie Hwy NE, Palm Bay, FL 32905 Monday-Friday, 9am-5pm Always have additional barrels Through our online gift shop





- 1 SIGN UP
 LagoonLoyal.com/signup
- 2 SCAN ME Earn Lagoon Loyal points!



Aug 29, 2020: Rockledge Gardens hosts MRC's Virtual Rain Barrel Workshop

Questions?

- Marine Resources Council
- > 3275 Dixie Hwy NE, Palm Bay, FL 32905
- **(**321)725-7775
- www.SaveTheIRL.org
- Nicole Broquet
- nicole@mrcirl.org



