



# Fish Stocking

## TRIPLOID GRASS CARP

To help eradicate difficult to control submersed vegetation, Triploid Grass Carp are an excellent, cost-effective addition to herbicide programs.

### BENEFITS:

- Triploid Grass Carp eat 3 times their body weight in vegetation per day
- Will not reproduce or harm the reproduction of other fish in the pond
- Average growth rate is 2-5 pounds per season and will need to be re-stocked every 3-5 years on average
- Stocking of Triploid Grass Carp does require a permit from the Florida Wildlife Commission. In addition, FWC will also require a barrier on any outflow of your waterway to prevent the offsite movement of the fish

Please contact your local [Aquagenix Representative](#) for assistance in the permit process and a detailed proposal. To achieve desired results, Triploid Grass Carp should be stocked at a rate of 12-15 fish per acre of vegetation.

## MOSQUITO FISH

The most common and effective biological control of mosquitoes is the Mosquito Fish or Gambusia. This fish is the most widely-stocked fish species on the planet, introduced exclusively to eat mosquito larvae before it can mature.

### BENEFITS:

- Gambusia are able to provide such excellent biological control of mosquitoes because:
- They can live in the places mosquitoes develop which often have low dissolved oxygen
  - They are small (1-3 inches as adults), making them easy to handle and transport
  - They have rapid reproduction rates, producing several clutches per year
  - They eat mosquito larvae

[Aquagenix](#) recommends stocking Mosquito Fish at a rate of 2000 fish per acre.

## GAMEFISH

The use of native game fish species in ponds is encouraged whenever possible.

- A pond stocked with healthy bass, bluegills and catfish will help provide a natural balanced environment and yield many years of enjoyment
- Typically, [Aquagenix](#) recommends ponds in Florida to be stocked with 500 bluegill, 150 Florida largemouth bass and 150 channel catfish per acre

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## Extended Services

### FISH STOCKING



A healthy and diverse fish population is required to create an environmentally balanced aquatic environment.

- **Aquagenix** customizes a plan with the species of fish for any pond or lake, such as mosquitofish or gamefish
- Triploid grass carp enhances herbicide effectiveness for difficult to control submersed aquatic plant species

### FOUNTAIN AND AERATION SYSTEMS



**Aquagenix** offers an extensive line of fountains and aeration systems that enhance the natural beauty of your lake or pond.

- Proper aeration prevents seasonal lake turnovers, minimizes fish kill events, decreases unpleasant odors and reduces overall maintenance costs
- Aids in the natural biological processes of healthy aquatic ecosystems

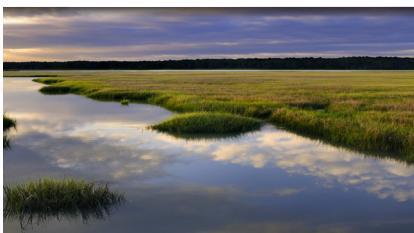
### WATER QUALITY AND CLARIFICATION



**Aquagenix** provides tailored analytical testing programs for your lake or pond to minimize water quality issues.

- Dye and colorant applications improve aesthetics and water clarity, as well as reduces or minimizes algae blooms
- Water monitoring and testing provides the environmental data for compliance with regulatory agencies

### WETLANDS/NATURAL AREAS



**Aquagenix** offers installation and restoration of native aquatic plants which will reduce nutrient loads and pollutants.

- Wetland consulting services interface with most governmental agencies and monitoring requirements
- Remediating wetlands through enhanced littoral zones and wetland plantings provide you with a turnkey wetland program

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# Fountains & Aeration

Learn how to bring out the **BEST** qualities of your waterbody.

## Aeration will:

- Improve Your Water Clarity
- Lower Algae Growth
- Deter Mosquitos
- Promote Healthy Fish Life and Plant Species

**Aeration** is the one expense that can make the **most improvement** in the appearance and productivity of a lake or pond.

- Without proper oxygenation, water may become stagnant, overrun with algae, emit unpleasant odors, and become a breeding ground for mosquitoes
- **Aquagenix** analyzes your water body and suggests which type of aeration is most suitable and cost-effective
- A floating fountain used in conjunction with bottom aeration will provide you the best overall results
- This method helps the overall health of your lake or pond and makes it aesthetically pleasing, turning your property's waterbody into an asset of the community



As Florida's leader in fountain and aeration systems, **Aquagenix** offers a wide range of systems to fit your needs, including state-of-the-art LED lighting and solar systems which significantly reduce or eliminate expensive electrical wiring and monthly electric bills.

**Aquagenix will custom design the perfect system to meet your specific requirements. Contact us today for a free consultation!**

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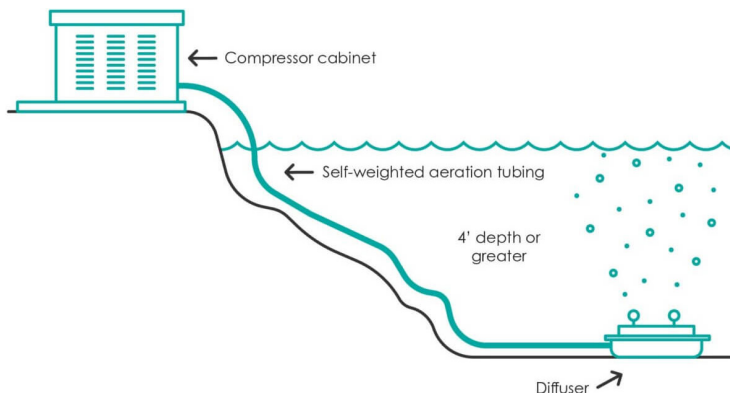
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# Aquagenix

A DCS Company



## Wetland Program

### Wetland planting, restoration, and maintenance.

#### Wetlands:

- Perform valuable functions in the ecosystem
- Act as filters for industrial, farm and residential run-off
- Provide habitats for aquatic life and water-fowl
- Reduce erosion



**Aquagenix** can provide you with a turn-key wetland program tailored to your particular property.

- We can act as your wetland contractor, in addition to serving as your Environmental Consultant, interfacing with the various governmental agencies
- From installation of aquatic plants that aid in the removal of nutrient and pollutants from your waterway system (littoral zones), or the re-creation of impacted native wetland (mitigation sites), **Aquagenix** has all the personnel and equipment to make the creation of these systems an attainable reality

The **Aquagenix** wetland staff stands ready to provide you with our analysis and review of your project from an implementation point of view. We will provide complimentary site specific plant information, a review of the site hydrology and plant compatibility, along with cost estimates.

Because we are acutely aware of the potential problems that can occur with the installation of native plant materials, we go the extra mile to ensure that your project follows permit requirements.



**We will partner with you and design engineers, various governmental agencies, consulting firms and the native plant industry to ensure that your project is a success.**

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## **Algae**

**Storm-water canals are engineered devices, intended to moderate flood surges and reduce stormwater pollution. As with other engineered devices, canals and coves require ongoing maintenance services.**

### **Potential challenges seen with algae overgrowth:**

- Interference with storm-water flow and drainage
- Algae can and will collect in the coves where there is no natural water flow or current
- Algal mats can contribute to areas of stagnancy and noxious odors, clog outfalls, and contribute to localized flooding
- Excessive algae growth contributes to increased sedimentation and filling-in of the basin

**Aquagenix** has 25 years of experience managing Florida's waterways, we find the most effective way to manage algae is with a trained Licensed Aquatic Technician who identifies the type of algae and treats it.

- Manually removing algae will likely result in translocation of algae. This can invite algae into new areas if it's not properly handled or removed
- Our program utilizes spraying all coves a week prior to trash pickup

### **THE BENEFITS OF TREATING ALGAE:**

- Partnership with a Licensed Aquatic Technician familiar with your local environment and waterways
- Better, longer control of algae
- Product formulated for algae type and proper coverage
- No staging areas required before incinerating or dumping
- No dumping fees
- Decreased environmental odors
- No translocation of algae species from moving across the water ways



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# Mosquito Control

**Controlling mosquito and midge larvae in your lakes and ponds is one of the most effective methods in managing pesky and dangerous insect populations.**

## BIOLOGICAL CONTROL

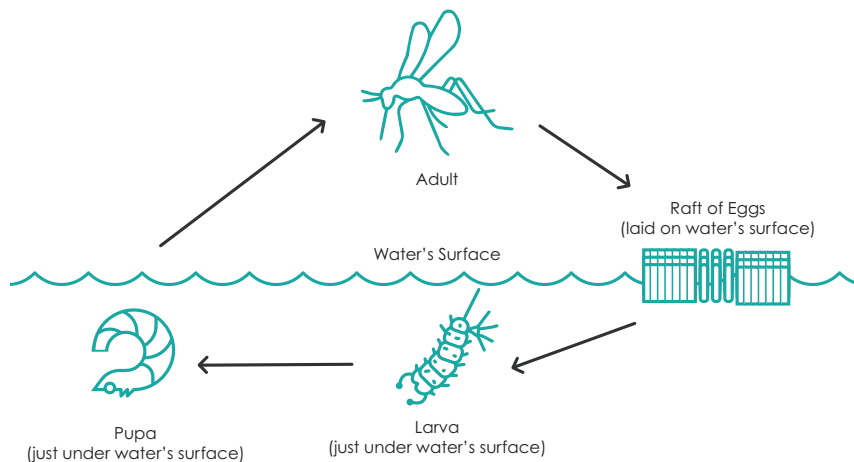
**Aquagenix** utilizes biological controls and various EPA-approved larvicides that are safe for use in the water.

- When performed on a regular basis, these treatments are very effective in reducing mosquitoes and midges in homeowner areas
- Eliminate all other sources for mosquito breeding including standing water and introducing water features that provide aeration

## PEST MANAGEMENT

Our most recommended biological control and most widely used fish in the world for mosquito control is the *Gambusia* fish (commonly known as Mosquitofish), a native and natural predator of mosquitoes and midges.

- Mosquitofish live approximately 2 years and can tolerate a wide variety of temperatures
- These minnow-sized fish are voracious eaters of mosquito and midge larvae, and they will continue to reproduce all
- There are numerous products available to apply for mosquito control, and a variety of application types ranging from granular pellets to liquid



**Partner with Aquagenix to create a custom Pest Management Program to control the various stages of mosquito growth in your area.**

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# Lake Management

## ALGAE AND AQUATIC WEED CONTROL

Lakes, ponds and canals offer recreational opportunities for boating, swimming and fishing, as well as serving the needs for irrigation, aesthetics and storm-water control.

- Heavy algae and aquatic weed growth prevent recreational use of these areas, interfere with irrigation and stormwater drainage, as well as becoming very unsightly
- Such problems lead to reduced real estate values for the surrounding property and pose a safety threat for boaters or swimmers

**Aquagenix** has a variety of methods to selectively control and maintain your desired level of aesthetics. We use only EPA approved products along with the latest in technology and equipment, with cost effectiveness in mind.



**Aquagenix has both the expertise and experience to fulfill all your aquatic needs.**

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**Mosquitoes live and breed near warm, stagnant bodies of water with very little surface action.**

- Water movement is one of the most important remedies, as it will limit the number of mosquitos using the water for breeding areas

**To best reduce mosquito breeding and populations, Aquagenix recommends utilizing multiple options:**

## FISH STOCKING

- Mosquitofish and fathead minnows are a great way to control mosquito populations
- As natural predators and voracious eaters of mosquitoes and their larvae, these fish will reduce the number of surviving adult mosquitoes and are an excellent choice of control

## PLANTINGS TO ATTRACT DRAGONFLIES

- A single dragonfly can eat 30 to 100 mosquitoes a day
- Pickerelweed, Arrowhead, Iris, Rush and Sedges are among the numerous aquatic plants which when placed along the shoreline of your waterbody will attract dragonflies to naturally assist with mosquito control
- Dragonflies do not eat the plants, but use them for nurseries, as well as hunting and mating

## BIOLOGICAL LARVICIDES

- Made from naturally occurring bacteria, these larvicides target the mosquito larvae in their breeding habitat before they can mature into adult mosquitoes
- Effective applications must be done anywhere from weekly to monthly depending on conditions

## PEST MANAGEMENT

The introduction of beneficial bacteria into bodies of water assists by reducing the layers of organic bottom muck that promote the growth and development of mosquitoes and other nuisance species such as midges.

- This overall reduction in organic bottom sediment starts control at the source, the actual breeding grounds
- Beneficial bacteria not only aids in the management of the larvae, but it contributes to the overall wellbeing of the waterbody by reducing algae blooms, nuisance aquatic weed growth, foul odors and fish kills as a result of low dissolved oxygen levels

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# Stormwater

## Keep your stormwater system compliant.

*Aquagenix* can provide you with a comprehensive stormwater maintenance system to meet your needs in an ever-expanding world of environmental regulations.



## OUR RANGE OF SERVICES INCLUDE:

- Vegetation Control
- Mowing
- Trash Removal
- Restoration & Remediation
- Erosion Repair & Reseeding
- Inspection & Cleaning of Inflow/Outflow Structures
- Emergency Flood Response
- Sand Filter Bed Inspection
- System Integrity



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Scan here to learn more at  
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## Algae

### Algae can interfere with stormwater flow and drainage.

As we all know, stormwater canals are engineered devices, intended to moderate flood surges and reduce stormwater pollution. As with other engineered devices, stormwater canals and coves require maintenance to prevent them from falling into disrepair.

- Algae can and will collect in the coves where there is no natural water flow or current
- Algal mats can contribute to areas of stagnancy and noxious odors, clog outfalls, and contribute to localized flooding
- Excessive algae growth contributes to increased sedimentation and filling-in of the basin

Manually removing algae from coves can help, but with 25 years of experience managing Florida's waterways, the team at **Aquagenix** finds the most effective way to deal with algae by having a trained Licensed Aquatic Technician identify the type of algae and treat it. Manually removing algae will likely result in translocation of algae. This can invite algae into new areas if it's not properly handled or removed. Our program utilizes spraying all coves a week prior to trash pickup.

### THE BENEFITS OF TREATING ALGAE:

- Licensed Aquatic Technician familiar with local environment and waterways
- Better, longer control of algae
- Product formulated for algae type
- Proper coverage of area
- Reduced labor rates and better pricing for the customer
- No staging areas required before incinerating or dumping
- No dumping fees
- Decreased environmental odors
- No translocation of algae species from moving across the water ways



Contact us today for more details:

[AquagenixAquatics.com](http://AquagenixAquatics.com) | 904-262-2001



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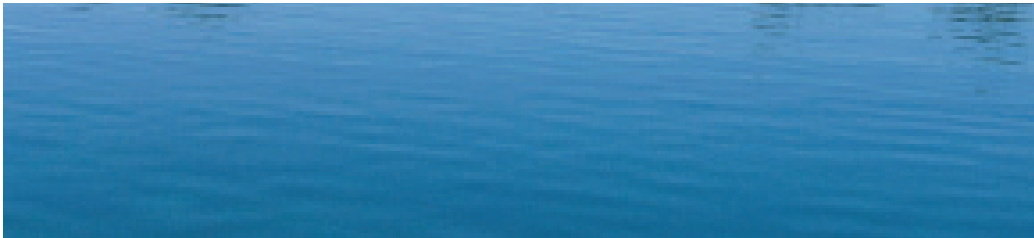
## Aquatic Dye

Aquatic dye adds color to water to reduce sunlight penetration. It provides natural shade, which helps to reduce nuisance vegetation growth by blocking photosynthesis as well as maintain natural bacteria in water. Aquatic dye is a preventative way to keep your pond, lake or fountain aesthetically-pleasing.

- Will not inhibit the growth of beneficial aquatic plants
- Preventative measure that can reduce the overall annual cost of maintaining your waterway
- Environmentally friendly and non-toxic
- Safe for humans, animals, reptiles, and fish
- Reduced sunlight penetration through water makes fish less vulnerable to bird predators
- Absence of algae allows proper functionality of fountains and longer time periods between disassembly/cleaning

### COLOR OPTIONS:

TrueBlue™



DeepBlue™



TrueBlack™



BY **AIRMAX**

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