



# The Greater Akron Aquarium Society

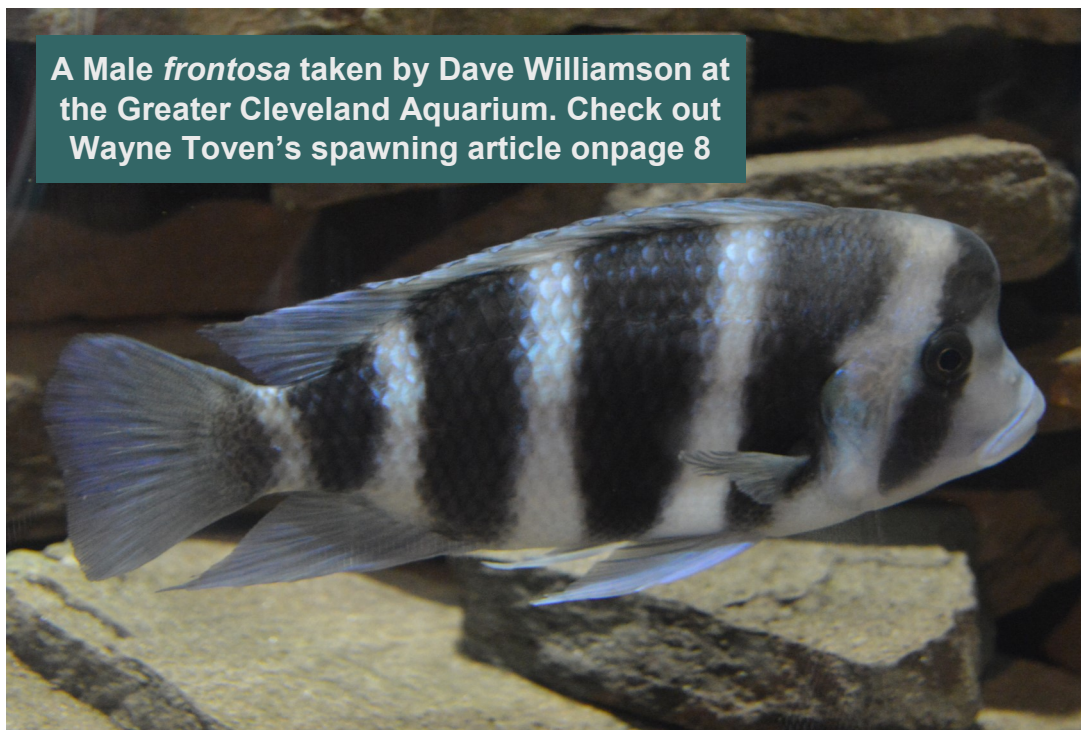
## Tank Topics

November/December 2015

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A Male *frontosa* taken by Dave Williamson at the Greater Cleveland Aquarium. Check out Wayne Toven's spawning article on page 8



### 2015 GAAS Board of Directors

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### Important Dates for 2015

March 1  
Spring auction

June 13 & 14  
Ultra Aqua 2015

November 1  
Fall auction

Check out our website: [www.gaas-fish.net](http://www.gaas-fish.net)

## THE GREATER AKRON AQUARIUM SOCIETY

**WHO ARE WE?** We are a local group of aquatic enthusiasts. Formed in 1952, the Greater Akron Aquarium Society is a non-profit, non-commercial organization. Our membership ranges from the beginning hobbyist to the advanced aquarist with many years of experience. The goals of our club are to promote the care, study, breeding and exhibition of aquarium related aquatic life and to promote interest in the aquarium hobby.

**MEETINGS:** Our meetings are held on the first Thursday of each month at 8:00 p.m. at the Mogadore Community/Senior Center, 3857 Mogadore Road, Mogadore, Ohio. It is located East of Route 532 across from McDonald's in the former post office building. Visitors are always welcome, it costs absolutely nothing to attend a meeting and look us over.

**MEMBERSHIP:** The cost is only \$10 for adults, a couple or a family (includes children under 10 years of age) and \$5.00 for a junior membership (10 to 17 years) Membership provides an opportunity to socialize with others that share your interests, a subscription to our bi-monthly magazine and more.

**AGENDA:** Our meeting agenda is simple and informal. The meeting will begin at 8:00 p.m. with a short business meeting. Immediately following is the program for the evening which usually lasts about 45 minutes. Our programs consist of a speaker, slide program, movie or perhaps a panel discussion always on a particular subject related to the hobby or various species of fish. Following the program is a short refreshment break. After which the winners of the Bowl Show are announced, the Breeder's Award Program fish are auctioned and tickets are drawn for the raffle.

**THE BOWL SHOW:** Each month members can bring in fish for specific classes to compete for first, second and third place awards. The charge for each entry is only \$.25. Members also compete for annual awards by accumulating wins throughout the year.

**BREEDER'S AWARD and HORTICULTURE AWARD PROGRAMS:** members can receive recognition for spawning species of fish or propagating aquatic plants. All that is required is to turn in a minimum of six fry from the spawn that are between 30 and 90 days old. Members earn certificates for each species and can work towards plaques in different categories.

**EQUIPMENT RAFFLE:** The raffle table has such items as tanks, fish food and aquarium accessories that are donated by national manufacturers, area dealers or purchased by the Society. Tickets may be purchased by anyone attending the meeting. Save your losing tickets for the Christmas Party raffle.

**ANNUAL SHOW:** The Ultra-Aqua show is held during the summer at the Tallmadge community Center. This has become one of the largest all-species tropical fish shows in North America. It is an international gathering of hobbyists to display their fish in class competition, talk fish and to learn about the hobby from each other.

**TANK TOPICS:** is published on a bi-monthly basis for the members of the Greater Akron Aquarium Society. Articles and comments for this publication are welcome and encouraged. Such articles are to be submitted no later than the board meeting prior to publication. All articles may be reprinted as long as the author(s) and GAAS are given proper credit and two copies of the publication containing the reprint are sent to GAAS. Please send any correspondence regarding this publication to:

Editor/Tank Topics, P.O. Box 494, Akron, OH 44309-0494 or email to [dwilliamson223@hotmail.com](mailto:dwilliamson223@hotmail.com)

### The Greater Akron Aquarium Society Membership Form

Name \_\_\_\_\_ Age \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ email \_\_\_\_\_

How did you find out about GAAS? \_\_\_\_\_

Memberships are due one year from the date of joining. Completed membership forms can be turned in at a meeting or mailed to the membership chairman at this address:

GAAS Membership Chairman, P.O. Box 494, Akron, OH 44309-0494

Dues are for 1 year or 2 years if  
email publications are chosen

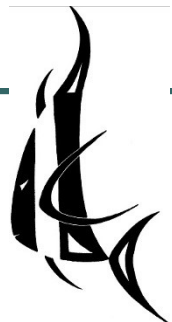
☐ New ☐ Renewal

☐ Electronic ☐ Mail

Adult (18 years and older) & Family  
(includes children under 10) \$10.00

Junior (10-17 years) \$5.00

Dues Collected \_\_\_\_\_ Date Received \_\_\_\_\_



# President's Message

Hello folks,

Time to remind you that the fall auction is almost here, Nov 1, and we need your help to get it done. We will be setting up Saturday, Oct 31 at 7 PM at the Tallmadge Community Center. The more people we have the faster we can get done and back home, we have done it in 45 minutes when we had the help needed. So show up and help support your club's activities and don't forget to come to the auction Sunday to buy fish and help with things there. Being a runner is a big help and you get to look more at the fish.

Next we have elections at the general

meeting. Interested in an office? Let Jeff Plazak know and he will add your name to the list.

Now I have to let you in on a secret, Christmas will be coming to GAAS at the December meeting. We are making some changes and hope you like them. For one we won't be having the gift exchange, due to low participation, we will have a Chinese raffle where you can make a choice on what you want to win, we will have our members raffle for fish and plants, then last we will have the usual raffle with some nice prizes.

Hope to see you at both functions,  
Bud

**See ya soon**



**Bud White**

# Editor's Message

**Dave Williamson**

Here we are again, it's election season. Not just for our aquarium club either! Now don't fear, I'm not going to jump into a dissertation on politics or the benefits/pitfalls of this or that issue. The important thing is that we get out there and exercise our right to vote. There are lots of people in other parts of the world who don't have that luxury. But anyway, we're here to talk about this club! Think about running for one of our positions and help assure the future of our club.

Speaking of our club, we're having an auction really soon coming up on November first. We really need as many of our members there to support the operation of our club. Runners, kitchen help, set-up (Saturday evening), tear-down you name it, there is a job for anyone who's willing to help out. Even just being there as a buyer or seller helps out immensely, especially towards the end as the crowd starts to dwindle. (On a strictly mercenary level, you can really pick up some great deals since some of the competition will have left!) We hope to see you all there!

Earlier in this column, I was talking about our upcoming elections, so that means we are getting near the end of

yet another year. But before the end of the year there are the holidays that we all look forward to. At our December meeting we have for years had a Christmas party. No program, just a party. Be there and just enjoy the raffles, door prizes and new for this year a Chinese Raffle for some special items. As always, the club is providing the main course for dinner and we ask that those in attendance bring side dishes or deserts to share. The only thing we're not doing this year is the gift exchange, just not enough interest anymore to make it worth it.

Since we're on the subject of next year, we have tentative dates for our functions for next year. All the meetings will fall on the first Thursday of the month (no pesky holidays interfering this year). The Spring Auction will be the first Sunday of March (6th), the Fall Auction the first Sunday of November (also the 6th) and the Ultra-Aqua Show will again be the second weekend of June (11th & 12th). Figure these into your calendar for the year and hope to see you at all the events.

I'll see you at the meeting (and the Auction)!



Thanks Dan McMonigle for the photos submissions!





## BAP/HAP Report

Wayne Toven

Looks like fall out the leaves have started to turn color and at times it feels like fall out, it looks like soon it will definitely be fall out. I had to bring all of my fish indoors from the outdoor tubs, at the end of September, due to all of the nights the temperatures got down to the mid 40's. Quite a few species spawned outside this summer, some did nothing, while one other specie disappeared without a trace, and of course it was a rare and expensive goodeid livebearer that I got at the American Livebearer Association convention this past spring. Oh well, that's how it goes sometimes, live and learn! Some of those fish will be going away at the annual fall auction on Sunday November 1<sup>st</sup>. So don't forget that you can turn in spawns or plant propagations at the auction or at the regular monthly meeting November 5<sup>th</sup>, which will be the last two chances to get in the running for **Breeder of the Year** and **Horticulturist of the Year** for 2015. These awards will be given out at the December monthly meeting/ Christmas party, the slate will be wiped clean and the 2016 year starts for both of the award programs. Also don't forget to turn your clocks back before the auction because daylight savings time ends at 2 am Sunday morning, you don't want to get to the auction an hour earlier than you planned, it will last long enough without getting there too early. Another reminder if anyone needs rules or forms for either of the programs they can be downloaded from the club's web site [www.gaas-](http://www.gaas-)

[fish.net](http://fish.net), go to the BAP/HAP link and click on what you need. If you don't have access to a computer you can also get printed copies of the rules and forms from me at one of our monthly meetings. In September we had nothing turned in for the BAP or HAP due to a power outage at the meeting hall. October was a little better, there were four spawns turned in, one of those needs to have a written report before credit is given. In case you haven't read the BAP rules to get credit for a spawn, you can turn in six or more fry between 30-90 days old, or have them verified by a club member that you kept the fry alive that long and either write an article or do an oral presentation about the spawning at a meeting, simple. There are a couple more HAP articles needed and a couple of BAP articles needed to get credit for this year, I know because the two BAP articles are mine. I know our editor would greatly appreciate the writing of articles; it's not that hard to do.

### October

#### Species Common name Class Points

##### BAP

Ken McGill				
<i>Heros sp. Rotkiel</i>	Red shoulder severum	Cichlid s.s.	10	
Dave Williamson				
<i>Cichlasoma amazonarum</i>		Cichlid s.s.	10	
<i>Tanichthys micagemmae</i>	Vietnamese white cloud	B.M. & R.	5	

##### HAP

Rich Serva				
<i>Spathyphyllum wallisii</i>	Peace lily	E. – flowering	10	

2015 Totals	BAP	Points	HAP	Points
Gary Shingler	11	100	-	-
Wayne Toven	6	60	-	-
Joe Reich	5	45	-	-
Dave Williamson	5	30	1	20
Ken McGill	4	35	-	-
Dan McMonigle	3	35	-	-
Rich Serva	3	20	1	10
David Girard	2	20	-	-
Orin McMonigle	1	15	-	-
Don Youngkin	1	20	-	-
Phil Hypes	-	-	4	30



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# Bowl Show & Special Activities

Don Youngkin



Because a power outage cancelled our September meeting, the October meeting had a double bowl show – the September and the October categories were featured.

Jeff Plazak is maintaining his lead over Dave Williamson for the annual points total, with November being the final bowl show of 2015. So far this year, 10 different people have submitted entries, with 6 of them winning at least one class. There is still time to join in the fun. All are invited to participate. The Bowl Show schedule is listed on this page.

## September

### Goodeids:

- 1<sup>st</sup> Dave Williamson Allotoca zacapuensis  
2<sup>nd</sup> Jeff Plazak Red Tail Goodeid

### AO New World Cichlids:

- 1<sup>st</sup> Jeff Plazak Electric Blue Jack Dempsey  
2<sup>nd</sup> Dave Williamson Cichlasoma amazonarum  
3<sup>rd</sup> Jeff Plazak Electric Blue Jack Dempsey

### Bog Plants:

- 1<sup>st</sup> Dave Williamson Yellow Iris  
2<sup>nd</sup> Jeff Plazak Iris  
3<sup>rd</sup> Jeff Plazak Grass

## October

### Gouramis & Anabantoids:

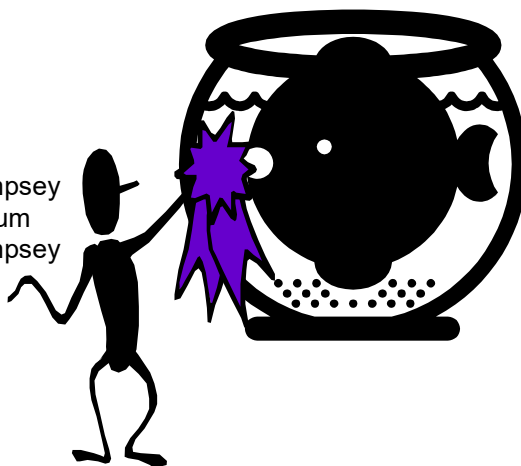
- 1<sup>st</sup> Jeff Plazak Gold Gourami  
2<sup>nd</sup> Dave Williamson Pearl Gourami  
3<sup>rd</sup> Jeff Plazak Opaline Gourami

### Arts & Crafts:

- 1<sup>st</sup> Nicole Youngkin Jellyfish pastel  
2<sup>nd</sup> Nicole Youngkin Nudibranch pastel

### AO Old World Cichlids:

no entries



## Annual Point Totals

Jeff Plazak	106
Dave Williamson	88
Wayne Toven	63
Ken McGill	17
Don Youngkin	15
Nicole Youngkin	13
Bill Koleszar	8
Charlie Suk	5
Alicia Harvey	3
Lisa Koleszar	1

## 2015 Bowl Show Schedule

### January:

Male Guppies  
Goldfish  
Minnows, Danios & Rasboras

### February:

Swordtails,  
Male *Betta splendens*,  
Characins (Tetras & relatives)

### March:

Mollies  
Suckermouth Catfish  
Barbs

### April:

Female Guppies  
Corydoras, Aspidoras & Brochis  
Photography

### May:

Rift Lake Cichlids  
Sharks & Loaches  
Aquatic Invertebrates

### June: no bowl show

### July

Native Fish  
Angelfish & Discus  
Aquatic Plants

### August:

Platies  
Rainbowfish  
Amphibians

### September:

Goodeids  
AO New World Cichlids  
Bog Plants

### October:

Gouramis & Anabantoids  
AO Old World Cichlids  
Arts & Crafts

### November:

AO Livebearers  
AO Egglayers  
AO Catfish

### December: no bowl show

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# Exchange Report

Wayne Toven



First things first there were three reprints of articles, first was in **Bucks County Aquarium Society**, The Buckette: Aug/Sep 2015 Wayne Toven's article *Propagating *Cryptocoryne moehlmanni**, the second was in **Erie Aquarium Society**: Sept. 2015 the same article, and third was in **Eastern Iowa Aquarium Society**, Fin Flap: Oct 2015 Wayne Toven's article *Propagating Narrow Leaf Java Fern* complete with pictures. See other people do read the articles out Tank Topics prints.

**Eastern Iowa Aquarium Society**, Fin Flap: July 2015  
*Leaf It in the Aquarium*, by Dick VanHyfte

**Michiana Aquarium Society**, Michiana Tropical Times: Aug 2015  
*Poecilia obscura*, by Ben Slocum

**Kitchener – Waterloo Aquarium Society**, Fins & Tales: Sep 2015  
*A Multitude of Multis*, by Karen Murray  
*C.A.R.E.S. Endangered Species in Your Tank*, by Lilian Stroh  
*Malaysian Trumpet Snails Love 'em or Hate 'em*, by Karen Murray

**Hamilton & District Aquarium Society**: Sep 2015  
*Spawning *Betta simplex**, by Charles Drew

**Brooklyn Aquarium Society**, Aquatica: Sep/Oct 2015  
*The Other Glass Catfish*, by Anthony P. Kroeger  
*Breeding *Badis burmanicus (ruber)**, by Bradley Moore  
*Breeding *Lamprologus ocellatus "Gold"**, by Bobby Sutton  
*Breeding *Pelvicachromis taeniatus**, by Bradley Moore  
*Breeding *Gephyrochromis lawsi**, by Tarri Bain

**Michiana Aquarium Society**, Michiana Tropical Times: Sep 2015  
*Chapalichthys peraticus*, by Ben Slocum

**Greater Pittsburgh Aquarium Society Inc.** Finformation: Oct 2015  
*Cryptocoryne pontederifolia*, by Tim Gross

**Circle City Aquarium Club**, Fancy Fins: Oct 2015  
*Breeding *Neolamprologus marunguensis**, by Chris Eichrodt

**Kitchener – Waterloo Aquarium Society**, Fins & Tales: Oct 2015  
*Ameca splendens*, by Lilian Stroh

**Eastern Iowa Aquarium Society**, Fin Flap: Oct 2015  
*Spawning *Elassoma zonatum*, the Banded Pygmy Sunfish*, by Dick VanHyfte

**Tropical Fish Club of Erie County**, Some Things Fishy: Oct 2015  
*Breeding Red Cherry Shrimp*, by Josh Vito

**Pacific Coast Cichlid Association**, Cichlidae Communique: Sep/Oct 2015  
*Neolamprologus marunguensis*, by Rolf Mader

**Hamilton & District Aquarium Society**: Oct 2015  
*Fun with Swordtails*, by Charles Drew

**Missouri Aquarium Society**, The Darter: Sep/Oct 2015  
*The Peacock Gudgeon (*Tatuerndina ocellicauda*) Revisited*, by Gary Lange  
*Serendipity and the Banjo Catfish*, by Mike Hellweg  
*Challenges in Spawning and Rearing *Jenynsia lineate*, the One Sided Livebearer*, by Chuck Bremer  
*Keeping and Breeding *Sewellia lineolata*, the Reticulated Hillstream Loach*, by Holly Paoni-Wise

**Greater City Aquarium Society**, Modern Aquarium: Oct 2015  
*The Fish of Many Morphs: *Trichogaster trichopterus**, by Alexander Priest



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## Growing *Iris pseudocorus* from Seed

Dave Williamson



*Iris pseudocorus* is a commonly kept emergent plant for the garden pond. So common in fact that they are easily found at garden centers and aquarium club auctions in the spring and summer. Most of this availability comes from the fact that like most types of iris, this species regularly sprouts daughter plants from its root stock. Once a sprout has developed into a "fan" of a few leaves it can easily be removed from the parent plant and potted on its own. About their only other requirements are to keep their roots wet and place them where they will receive plenty of sunshine. Their natural growth habit is on the edge of ponds and small water courses where the ground is wet but not prone to flooding as the leaves and crown will not fare well if they are underwater for very long. Although they are a common sight growing in natural areas around here, they are actually not native to this continent. They originally came from Europe but have spread all around North America.



My original start of this plant came from an auction for a couple bucks. Just potted it like I've done with other emergent plants into a mixture of garden soil and aquarium gravel, then covered over with a layer of coarse gravel to keep the fish from digging around in the pot and spreading the soil around. I've had it for a few years now and I leave it outside all year. All the leaves die off in the fall and new growth comes up in the spring. It has reproduced vegetatively and I now have numerous crowns both in the pot they started in and a neighboring one as well! In late spring they bloom, with each mature crown sending up a spike of buds that open into bright yellow flowers with white centers. Each flower only lasts a couple of days, but there are so many of them they put on a nice show. I pretty much take a "hands-off" approach to most plants and don't dead-head them after blooming is over. Last year, one of the flower stalks didn't dry up and fall off and where one of the flowers

had been started to grow an oblong pod. It must have taken having multiple plants blooming to allow for pollination even though they were all clones from the same crown. As the summer went on the pod got larger and more football shaped. It was hard and dark, shiny green. Eventually the texture and color changed and it split open revealing a whole bunch of 1/4" dark brown seeds. At this point I figured I'd try to get some to sprout to finish the cycle. Being that they are temperate zone plants I thought the seeds might need to rest over winter and possibly freeze to get them to germinate in the spring so I collected a couple dozen of them and put them in a flower pot saucer in the garage for the winter. When spring finally arrived, I took a much larger saucer, layered the bottom with gravel added about an inch of water and threw in the seeds. For quite a while nothing happened, they just floated around and I thought maybe storing the seeds dry had not been a good idea after all. Then just about when I was ready to give up on them, a few actually sprouted! It took a while for them to actually look like they were going to grow some sort of plant. At that point I put one sprouted seedling into a small clay flowerpot with some potting mix in it (no perlite since that would float) After a few weeks I could see that the seedlings were really growing up to be Iris plants. When all was said and done, I had five small iris plants growing each in their own pot. I guess that really wasn't great results seeing how many seeds I started out with, although I believe that a few disappeared due to birds or a chipmunk or something. And really, how many did I need to grow anyway?



## Keeping and Spawning *Cyphotilapia frontosa*

Wayne Toven

I've kept a lot of cichlids over the 28 years (hard to believe it's been that long) since Joanne bought me that 20 gallon set up for Christmas, so I can blame her for this hobby (obsession). Usually the cichlids were rather small like Julidochromis, Pelvicachromis, or Neolamprologus, due to the smaller tanks I had when early in the hobby. I had mostly 10s, 15s, 20s, and the largest was 55 gallon, but after many years of auctions, garage and yard sales, the numbers increased greatly, eventually taking over the entire basement. Over the past 10 or so years I have been getting some larger tanks, 75s & 90s to replace 55s, then a couple of 100s, some 125s, a few 150s, a 180, and last of all a 265 gallon. With the larger tanks you would think the number of tanks would have gone down, but it is still around 140, it just spread out some from the basement. My family room holds the largest tank: the 265, it also houses three 150s, a 120, and an 80 gallon bow front, my laundry room has a 180, a 90, three 75s, two 55s, and five 40 breeders, and there is a 120 gallon acrylic tank in my dining/plant/snake room. Filtration for all of the tanks over 75 gallon is by the Hamburg - matten filter, which consists of a 4 inch thick Poret foam mat the covers the entire end of the tank, water movement is provided via two air driven lift tubes made out of pvc pipe. I have started putting matten filters in the 50s and 55s but they use only 2 inch thick Poret foam and only one air driven lift tube.

Since I have more larger tanks, I started keeping some larger cichlids, five or so years ago I had some Heros severus spawn in the 180 gallon in my laundry room, then I had Tilapia sp. Cross river spawn a few times in the 265 gallon about three years ago. I had often seen Cyphotilapia frontosa at fish club auctions, the adults were always expensive,

the fry varied in price. So when I got the chance to get some 1 ½ inch six bar C. frontosa fry for a reasonable price, I took the plunge and bought a bag of four fry, that was about 3 years ago, I housed them in a 15 gallon tank till they got a little over 2 inches in size, then they were moved to a 75.

C. frontosa are widespread throughout Lake Tanganyika in central Africa, they were first described by Boulenger in 1906. They are a rather slow moving somewhat lethargic cichlid, except when pursuing food (other fish), they live in large groups called colonies along the sloping bottom of the lake at depths varying from 30 – 230 feet. This caused problems for collectors of wild caught specimens in the early years of the hobby, due to time required for decompression of the deep water fish, this also added greatly to the cost, nowadays a lot of the fish available are captive bred. There are currently several color variations available from different locations around the lake, but I am not going to go into that here. The main difference is the number of vertical bars on the fish, there are six bar and seven bar varieties. The base body color is white to bluish-white, with dark vertical bars, one on the head through the eye and five or six on the body, the fins are also the bluish-white color. Both sexes have the same coloration, so young are hard to sex, it takes around three years for the species to reach sexual maturity, which would be around 7 inches for males and 5 inches for females, this is not unusual considering their lifespan is up to 25 years. C. frontosa are a heavy high bodied fish, with large rounded heads, with a fair sized mouth that is set low on the head. Males tend to grow larger up to 15 inches, the females stay a little smaller; the male's ventral fins are longer, also the dor-

sal and anal fins are longer and more pointed. The female get a small nuchal hump (on top of the head) while the males get a much larger very prominent hump, this is where the species gets the common name of the hump-head cichlid.

Aquarium water parameters should be: a Ph in a range of 7.5 – 9, hardness around 10 dGH, and temperatures in the 25° - 28° C (77° - 84° F). Tank setup should be a minimum size of 75 gallon, larger is better, it should contain rocks for establishing territories, I use a sand substrate, caves of suitable size (can be pvc, drain tiles, or large rocks), for subdominant males or females to hide in when getting harassed. For breeding purposes a sex ratio of 1 male and 3 – 4 females should be adequate, more females can be used if there is adequate space, avoid overcrowding when trying to get them to breed. Spawns can range from 15 – 100 eggs for large females; they are mouth-brooders, so the female will carry the eggs and then developing fry for around 5 weeks. This is when the caves are very important, if the female gets chased or harassed she could swallow or spit the eggs out where they will get eaten by tank mates.

My four fry grew slowly over the first 1 ½ years they were in my fish room; in the 75 I must have had one dominant male, two subdominant males and one female. The dominant male beat and killed one of the smaller males, down to three, when they were about 2 ½ years old the dominant male was around 6 ½ inches body length, subdominant male about 5 ½ inches, and the female 5 inches. One day when feeding I noticed the female was in a pvc cave looking out and would not come out to eat, she did this for just over a week and a half, then she was back



out swimming around and eating, great no fry this time. I figured they would spawn again soon and this time I would strip the eggs, usually I move the female mouth-brooders to a tank by herself and let her carry the eggs or fry till she spits them and does not try to pick them back up, then she is moved out. Well this year on my birthday at the end of January I noticed the female hiding out in the same pvc cave as before, I let her go for a week this time then on February 5<sup>th</sup> I decided it's time to strip her. I got her to spit out 14 large tan colored eggs (a good 3-4 mm in size I'm guessing) into a catch cup; (actually I didn't think to measure them), the number of eggs was low probably due to the young age of my breeders. I didn't have an egg tumbler on hand, like I said I normally don't strip female mouth-brooders, so I scrounged around the fish room for various parts and pieces that I could assemble to make an egg tumbler. I used the filter core support from a HOT Magnum as it has holes the length of it so it should have good water flow to keep the eggs clean, for the base a plastic adapter from an ATI prefilter with non metal window screen over it to keep the eggs from falling out the bottom, a suction cup from a submersible heater to hold the whole thing at the proper water level, a U - shaped piece of rigid airline tubing with nylon tie wraps to hold it in place, instant egg tumbler! I put the 14 eggs into it and



adjusted the air flow so that the eggs were gently tumbling, it worked! Within a couple of days one of the eggs started to fungus, it was immediately removed, and then I carefully

watched the remaining eggs for the next week, no more fungus, inci-



dently I had not used any fungicide on them. I noticed that a small spike was protruding at a tangent from the eggs. Over the next week or so this turned out to be the tail of the developing fish, (I took pictures all along this process), a head started to form opposite the tail spike, then when the head and tail were more developed they started to get some color, they grew and grew, on March 3<sup>rd</sup> they were fully formed fish but they still had a very large egg sac. The egg



tumbler was very crowded for this many fish so they were moved to a small bare bottom fry tank with a sponge filter, they pretty much just laid on the bottom while they were



absorbing their egg sac, when the egg sac was all but gone they started swimming around, this was March 10<sup>th</sup>. They were moved to a 10 gallon tank when they were around an inch in size, they were fed crushed flake 2 - 3 times a day. They are now in a 20 gallon tank as they are a good 1 1/2 to 2 inches in size. Since then in the breeding tank the dominant male decided he didn't need any competition and proceeded to beat the crap out of the subdominant male, and I didn't find him soon enough to save him, then he decided to beat the female, but I saw her in time to save her, she is in a 40 gallon breeder and has healed up nicely. Now I will have a breeder pair?

*C. frontosa* are opportunistic feeders, in the wild they eat other fish, mollusks, and crustaceans, and in the aquarium they should get sinking meaty pellets, floating pellets can cause the fish to ingest too much air along with the food, which can cause health problems. I am currently treating my breeder male for bloat and was wondering if this was caused by feeding floating pellet food. Since I have never had this problem before at a recent fish club auction I asked several different cichlid keepers what to do, treat with a medicine that I have never heard of or used before, treat with Epsom salts (that I have on hand) added to the water & raise the temperature, and feed a sinking higher fiber food if he will eat it. I didn't get the medicine, I am using what I have, I hardly ever have a problem in any of my tanks, so I don't keep drugs or medicines on hand, the most common problem I have is fish beating on each other. Now I am monitoring him doing water changes every couple of days and hoping for the best.

Sources: [www.cichlids-forum.com](http://www.cichlids-forum.com),  
[www.fishandtips.com](http://www.fishandtips.com), [www.animal-world.com](http://www.animal-world.com)

Baensch Aquarium  
Atlas – Dr. Rudiger  
Riehl & Hans A.  
Baensch

My observations –  
Wayne Toven

## The Greater Akron Aquarium Society

P.O. Box 494  
Akron, OH 44309-0494

«firstname» «lastname»

«address»

«city», «state» «zip»

### Meeting Notice - Do Not Delay

# Meeting Notice

## Thursday, November 5

**Program:** Bud White "Caring for Characins"  
everything you needed to know about keeping  
tetras and their relatives.

**Bowl Show:** All Other Livebearers,  
All Other Egg Layers and All Other Catfish

## Thursday, December 3

**Program:** Annual Christmas Party!

This is a party, with award presentations for members who have participated in club activities during the year. No speaker, no bowl show, or other committees except refreshments and awards. No raffle tickets sold. Food, fun, fish talk, and what better time for gifts? And there will likely be a door prize or two for every member. Don't miss it!

All general meetings begin at 8:00 p.m. at the Mogadore Community/Senior Center

## Coming Events

### GAAS Fall Auction

**November 1, 2015**  
**Tallmadge Community Center**  
**80 Community Rd.**  
**Tallmadge, Ohio**

**Schedule**

Auction Registration	10 am
Auction Begins	11 am



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**November 20-22**  
**2015 Ohio Cichlid**  
**Association's Ex-**  
**travaganza** at the  
Strongsville Holiday  
Inn at Rt. 71 & 82 in  
Strongsville

visit  
[www.ohiocichlid.com](http://www.ohiocichlid.com/extravaganza)  
[/extravaganza](http://www.ohiocichlid.com/extravaganza)