

Fincinnati

Jan/Feb 2010

The
OFFICIAL
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Of the
Greater Cincinnati
Aquarium Society



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Greater Cincinnati Aquarium Society

Fincinnati

GCAS Meeting Schedule– 2010

January 31st Sunday Meeting
February 6th Saturday SWAP MEET
February 21st Sunday Meeting
March - Auction 3/27/10
April 25th Sunday Meeting
May 23rd Sunday Meeting
June 27th Sunday Meeting
July 18th Sunday Meeting
August 29th Sunday Meeting
September 26th Sunday Meeting
October - Auction 10/30/10
November 14th Sunday Meeting

Calendar of Events– 2010

Greater Cincinnati Aquarium Club www.gcas.org
Swap Meet February 6th, 2010

Spring Auction March 27th , 2010

Fall Auction October 23rd, 2010

Columbus Area Fish Enthusiasts <http://columbusfishclub.org/>
CAFE Spring Auction May 9, 2009
CAFE Fall Auction October 3 , 2009

Greater Akron Aquarium Society <http://www.gaas-fish.net/>
GAAS Spring Auction March 7, 2010
GAAS Show and Auction July 10 & 11
GAAS Fall Auction November 7, 2010

Greater Chicago Cichlid Association <http://www.gcca.net/>
GCCA Swap-Meet January 24, 2010
GCCA Swap-Meet February 28, 2010
GCCA Auction April 18, 2010

Greater Pittsburgh Aquarium Society <http://www.gpasi.org/>
Spring Auction: Sunday April 25th 2010
Fall Auction: Sunday September 26th 2010

Michiana Aquarium Society <http://www.michianaaquariumsociety.org/html/>
Killifish Karnival 2010 31st Annual Killifish Show and Auction February 27 & 28

Michigan Cichlid Association
Auction January 23, 2010

Motor City Aquarium Society <http://www.motorcityaquariumsociety.com/>
Auction February 27, 2010
Auction November 20, 2010

Ohio Cichlid Association <http://www.ohiocichlid.com/home>
OCA Winter Auction Feb. 13, 2010

National Conventions 2010

American Livebearer Convention, Detroit, MI <http://www.ala2010.com/>
April 22-25

American Killifish Association Convention, Cleveland <http://www.aka.org/convention/2010/>
May 28-30

North American Discus Association Convention in Dallas, Tx <http://www.discusnada.org/>
June 10 - 13

IBC Internation Betta Convention, Indianapolis, IN <http://www.ibcbettas.org/pages/shows/details/40-2010-convention.html>
June 24-27

American Cichlid Association Convention, Milwaukee, WI http://www.cichlid.org/index.php?pageid=aca_convention
July 22-25

The All-Aquarium Catfish Convention 2010 2010 Laurel, Maryland <http://catfish2010.com/>
October 21-24

Club Information

GCAS Officers

President	Eric Jacobsen	859-653-5347
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Membership & Donations	Jim Foreman	jim@woh.rr.com
Program & Speakers	Ken Saxon	
Webmaster	Ramon Garcia	gcas@amergim.com

The Greater Cincinnati Aquarium Society is a non-profit organization dedicated to promote the interests of the aquarium hobby.

Meetings are usually held on the last Sunday of each month at Winton Wood's Visitors Center, located at 10245 Winton Road at 7:30pm. The meetings usually include a program or a guest speaker, and a fry auction for the Breeders Award Program. Guests are welcome to attend any two of these meetings before joining GCAS.

Annual memberships are \$10.00 for an individual or family. As a member of GCAS you may attend the monthly Meetings, the spring and fall Auctions (you can register early for the auctions too) and the Christmas Banquet, and you will receive our bimonthly newsletter, Fincinnati.

So this is the first annual awards issue of The Yolk Sac, and it is a doozy. This is the most awards that I have given out in one year since taking over BAP in 2005. It's also the most I've had to spend on awards in a single year (note to the treasurer: it usually doesn't cost this much, I swear). It is nice to see this many awards, I was not awarding all too many over the last couple of years. At a recent X-mas banquet, Mark Murtaugh speculated that a lot of the members who have been participating in BAP for a while are now working on the upper level. I think a lot of those members finally started achieving these awards this year. Also, we've had a new influx of members who have now started getting some of the lower level awards. So, without further ado, here are the recipients of BAP awards this year.

Advanced Awards

The advanced award is the first award level for each class of fish. Winners receive a very nice plaque. Participants are awarded the All Around Advanced Breeder Award, as well as a one-year free membership, when they receive five advanced awards.

- Tony and Sue Anderson – Livebearers
- Dave Cook – Barbs, Minnows, and Rasboras
- Dave Cook – All Around Advanced
- Todd Leising – Cichlids
- Chris & Mandy Mayfield – Livebearers
- Chris & Mandy Mayfield – Cichlids
- Klaus Schoening – Killifish
- Rob Woehr – Barbs, Minnows, and Rasboras

Specialist Awards

Specialist awards are the next level of award. Members receive a nicely framed certificate, and a two-year free membership. Members who receive five specialist awards receive the All Around Specialist Award, in the form of a nicely framed certificate and a five-year free membership.

- Tony and Sue Anderson – Catfish
- Dave Cook – Anabantoids
- Eric Jacobsen – Catfish
- Steve Smith – Anabantoids
- Steve Smith All Around Specialist

Master Specialist Awards

Master specialist awards are the final level of award. Members receive a nicely framed certificate, and a five-year free membership.

- Mark Murtaugh – Livebearers
- Mike Smith – Catfish

BAP Incentive Program Winners

- Todd Leising won the cichlid contest with 19 genera of cichlids. Todd won a registration, banquet ticket, and t-shirt



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to 2010's ACA convention in Milwaukee.

- Amy & Rob Zerkle won the livebearer contest with 15 distinct species of livebearers. The Zerkles won years worth of the ALA's newsletters, generously donated by Jerry Riegel.
- Bert & Marsha Kelsey won the Ian Fuller Corydoras Award with four corycat species. The Kelsey's won an original Ian Fuller ink print.

The Big Kahunas

The Spawn of the Year and Most Prolific Breeder awards recognize the cream of the GCAS crop. These awards reward members for the highest quality and quantity respectively.

- Chris & Mandy Mayfield and Todd Leising tied for Most Prolific Breeder with 30 freshwater species.
- Dave Cook won Spawn of the Year for spawning *Betta macrostoma*.

Spawning Report Ophthalmotilapia boops (Nkondwe) Todd Leising

Species:

Ophthalmotilapia boops (Nkondwe) is a maternal mouth brooding cichlid found in Lake Tanganyika. It prefers to live just outside of the surge zone in the rocky habitat. Boops are very similar to another Tanganyikan featherfin, the ventralis. The main difference between the two species is the teeth structure. Boops will defend their territory very fiercely. Their territories can measure up to 1 square meter. They reach a maximum length of around 5". Brooding males from "Nkondwe" become jet black with a white to light blue streak in their caudal peduncle to their tail. The female counterparts remain silver, but can darken slightly.

Set-up:

I currently have the trio in a six foot long 180 gallon tank. The trio shares the tank with 5 Altolamprologus calvus "White" and a group of 14 Cyprichromis sp. Leptosoma "Kitumba". There are rocks placed 16" in from either side to allow open sand areas on each side of the tank. The dominant male has created a shallow nest on the left side of the tank. The rest of the tank mates reside on the other two thirds of the tank. The Cyprichromis sp. Leptosoma jumbo "Kitumba" in my opinion is a great tank mate. They will defend their area, but are still aggressive enough to handle the much larger boops. There are also a couple of tall thin rocks leaned up against the back glass in order to provide hiding places.

Water Conditions:

I keep my cichlids in tap water without any buffering or chemicals. The tap water comes out of the faucet at a PH of 8.4 and a total hardness of 300. I bring straight tap water into several plastic 55 gallon barrels that do a couple things for me. First, I age the water for 2 days to allow the chlorine to dissipate out of the water. Second, I bring it in from the main water line to bypass my water softener. Unfortunately that also means it comes in around 45 degrees. I keep heaters in the barrels to bring the water temperature up to 80 degrees which usually takes one day. For water changes I pump water from the barrels straight to the tanks. I remove approximately 40% of the tank water weekly.

Feeding:

Ophthalmotilapia boops (Nkondwe) are herbivores by nature. I use NLS 1mm cichlid formula as the main staple food. I also supplement with regular flake, and spirulina flake. I feed this tank twice per day.

Spawning Rituals:

Currently my male has created a circular depression in the sand substrate on the left side of the tank. The depression is around 12" in diameter. The male will swim to the other side of the tank (where the females generally reside) and flash while slowly swimming towards his prepared pit. The male can be somewhat rough on the females when they do not cooperate. The male turns jet black with a brilliant white/baby blue streak through the back half of this fish while trying to attract females. Once the female has spawn she will remain on the opposite side of the tank away from the male. I believe the distractions from the male Cyprichromis keep my male boops pre-occupied enough so he is not constantly harassing the females.

Spawning Pterophyllum Scalare—aka Angelfish Steve Smith

I bred angelfish from the late 1980's for sale to local pet shops thru the 90's and then stopped only to return ti it in the last few months. Along with this I have conducted various genetic experiments in order to produce new color varieties. One of these was based on albino genetics and the various color forms that might be obtained. See my other article on Albino Angels of Many Colors.

Along the way, I have learned many things about breeding angelfish that I will include in this report. Small angels typically for sale in pet stores are probably from 6 weeks to 3 months old. While this may seem like a wide range, it results from the variety of conditions that they may have come from. If baby angelfish are raised under ideal conditions they can reach saleable size (dime to nickel sized body) in 6 weeks. Under less ideal conditions they can take 12-16 weeks to reach the same size. Ideal conditions are at least 3 or more feedings per day of a variety of foods, daily water changes and a stocking density of 1-2 fish per gallon. Good foods for newly swimming fry up thru 3 weeks old, include microworms and baby brine shrimp. By a week old, addition of powdered flake foods is a good idea and by 3-4 weeks of age frozen brine shrimp is another food to add to their diet.

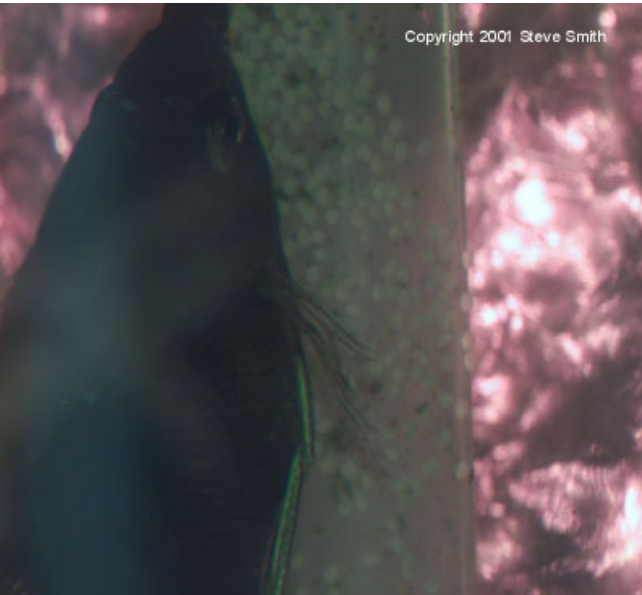


Figure 1: Female laying eggs



Figure 2: black eyed fry and albino fry



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Angelfish (Pterophyllum Scalare or Leopoldi-ongoing debate but probably a mixture, another more difficult species is the Altum) originated from South America living in soft acid water conditions. Spawns of these wild fish required duplicating these conditions in the aquarium. The fry from the aquarium breedings were easier to breed and thru the generations they have become much more tolerant of various water conditions. I have bred them in water as hard as 400ppm hardness with pH's ranging upwards of 7.8. They do best with temperatures between 78-82F. One of the watch outs is that continuously breeding related angelfish can lead to weakening of the strain. Watchouts, include smaller eggs/fry, loss or mishapenment of the two "feeler" fins and other defects in body shape.

Angelfish seem to reach maturity and will start pairing off around 9 months of age. Initial spawns are often eaten and it may take several attempts before a pair is successful in raising their fry. They will typically look for a wide plant leaf or heater tube or filter tube to lay their eggs on. Pieces of slate are ideal for the hobbyist to place in the tank in that the eggs can be removed with the slate and reared separately. Once the eggs are layed it takes about 2 days at 80F until they start wiggling and an additional 5 days until they become free swimming. The pair may move the fry at any time after they start wiggling and may move them more than once. They appear to be eating the fry as they use their mouths to pick them up and then spit them onto the new surface. After a week, when the fry start their attempts at swimming the parents may become frustrated trying repeatedly to spit them back onto the surface. It is a beautiful sight to witness a spawn of 300-600 angelfish fry swimming with their parents.

For practical rearing of large numbers of fry for sales, I typically steal the eggs within hours of being laid and hatch them in 10 gallon tanks where they remain for about 2 weeks before moving to larger tanks to provide more growing room. When hatched the fry may be 3-4 mm long but within 2-3 weeks should be the size of a pea. I prefer to leave the lights on 24 hours a day for the first few weeks. During the first week the eggs/fry stick to surfaces and even after reaching the free swimming state they still have a sticky spot on their heads for another couple of days. If the lights are turned off anytime in the first 2-3 days after free swimming the fry will settle to the bottom of the tank and likely end up stuck together in a ball that will require significant energy to break free from in the morning. Certain of the weaker strains such as albinos and blushers can suffer high mortality rates when the lights are cycled off and on with much better results when the lights are left on at night. Also I can get an extra feeding in just before going to bed which should help them grow better. On the other hand it has been shown that continuous lighting can lead to problems with the development of certain colorations. For instance silvers raised in continuous light tend to not have the vertical bars and half blacks do not develop their coloration in continuous light either.

Albino fry can have poor survival rates for the first week if not fed appropriately. Some believe that they are blind for the first week. I know they are smaller and have a hard time eating baby brine shrimp but can eat microworms for the first two-three days by which time they are able to eat baby brine shrimp. If they fall behind in growth, however, they will usually lag further and further behind. For this reason, I typically separate the albino fry from their black eyed siblings. If they are separated they grow quite well and are very large healthy fish. In the pictures on the facing page, I was able to capture a black angel in the act of laying her eggs and after 9 days was able to get a picture of two of the hundreds of fry. The pair was albino recessive so 1 in 4 babies is albino and as can be seen in the second figure the albino fry is not quite as large or robust as the black eyed fry. The black eyed fry is already showing signs of the black coloration that it will develop into. I believe the stomach is orange because of the baby brine shrimp it has eaten while the albinos stomach was not full yet. The genetics of angelfish allow for many color and finnage forms as outlined in the tables below.

Colors	Finnage	Other characteristics
Silver- dominant	standard- short fins	Blushing- recessive
Gold- dominant	veil- dominant	Pearlscale- recessive
Black- dominant	double dose veil-extrememly long	Albinism- recessive
Zebra (silver with an extra stripe)		
Marble		
Smoky (chocolate is a single dose)		
Half-black- recessive		

Figure 3. Basic Angelfish Colors, Finnage and other characteristics from which todays varieties are produced

Koi's- blushing + marbles
Ghosts- stripeless silver resulting from a single dose of blushing
Blue blushers- double dose of blushing plus usually seen with pearlscale genes
Double dose blacks- two doses of black usually resulting in a weak slow growing fish

Figure 4. Today's varieties are produced by combining various genetic factors.

I will talk about the genetics of recessive traits and how to combine them in the following article.

Albino Angelfish of Many Colors: Steve Smith

Books on angelfish indicate that albino angelfish are a weak strain.

My experience with them is quite different. As long as they are outcrossed to black eyed strains every few generations they are very prolific.



Albino angelfish (from gold angel strain)



Dark Marble angelfish

I spent several years developing various color varieties in the nineties.

By definition the albino angelfish had red eyes. Most are also white, but as with other kinds of fish, such as albino mollies, it is possible to have red eyed fish with colors present on the body of the fish. The first albino angelfish I obtained resulted from a strain of silver angels and as such were white fish with whiter stripes instead of the black stripes on normal silver angels.

By crossing these into gold angels and then back crossing (brother x sister), I obtained albino angels without the white stripes in the second generation. An example of this is shown to the left. Further crossing of these albino angels into a strain of marble angels (shown below to the left) and then backcrossing produced albino gold marble angels (shown on the following page). These fish have noticeable white spots where black spots would normally occur in black eyed marble angels. Crossing of these albino gold



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Albino Marble angelfish (note white spots)



Gold Marble x Albino Marble angelfish

marble pair angels with an albino recessive gold marble produced a 50/50 mixture of gold marbles and albino gold marbles. Crossing of these albino gold marbles with pure gold angels produced marbled angels proving that they carried the marble genetics. In the two top pictures to the left, compare the coloration of the albino fish to the gold marble sibling. They both show the gold crown while the albino fish shows white spots while the normal gold marble fish shows black spots.

A strain of albino blushing pearlscale angels was also developed by crossing albino angels with blue blushing pearlscale angels and back crossing.

The albino gold marbles were later crossed to a koi pearlscale angel (shown below) and after back crossing the second generation angelfish that resulted a few albino koi angels were produced (shown on the following page). They carry the extreme orange crowns from their koi ancestry and again the normal black spots from the koi parents shows up as white spots notable on the body and fins of the fish shown. The koi angel used carried the pearlscale genes and thus the fish shown is also pearlscale although pearlscale does not show up well on blushing angels. The orange crown is even more intense in the albino fry than in the normal colored parents.

This all sounds easy, but some understanding of genetics is required and some challenges develop. From the table in the previous article we can see that albinos, blushing and pearlscale traits are all recessive. In order for this trait to show in a fish they need to have two doses of the genes from their parents. For instance, in order to create the albino koi pearlscales starting from the albino gold marble and the koi pearlscale, the first generation fry all looked like gold marbles. This happens because the fry only have one dose of albino from one parent and only one dose of pearlscale from one parent and only one dose of blushing from the one parent. Thus, there are three recessive genes that need to be re-combined in the 2nd generation, which limits the numbers of desired fry. I needed to raise the qst generation fry and breed brother to sister giving some fry with the double doses of the genes for these traits in small numbers. For example, one quarter of the fry will be albino, and one quarter of the fry will be blushing and one quarter of the fry will be pearlscale. Unfortunately, only one in sixteen fry will show any two of the traits and only one fry in 256 will show all three recessive traits. Since a good hatch from a spawn will be 400-600 fry, the albino kois (non-pearlscale) would only number about 20-35 per spawn. Only 1-2 of the desired albino koi pearlscales could be expected per spawn.



Koi Pearlscale angelfish



Albino Koi Pearlscale angelfish

Another cross was of the albino angels into a strain of black pearlscale angels (below and to the left) and backcrossing the fry produced a strain of albino black pearlscale angels that showed considerable gray to black coloration up the head of the fish to the upper fin. (shown on the bottom of this page and on the following page) The bodies of these albino black pearlscale angels also showed a gray coloration. The small spots in these photos on these two pages are fry. These angels proved to be good parents and raise their fry. The albino males shown were the most aggressive males I had ever raised. Also shown (on the following page) is a picture of a pair consisting of a female black pearlscale and a male albino black pearlscale angel.



Black Pearlscale angelfish pair-- double dose veil

While I got away from all of these angelfish experiments after about 2002. I have returned to breeding angels in the last year and plan to start up these color strains again as well as extend it to the dark marble pearlscales shown in the last picture. The albino kois should be especially interesting with the redder and higher coverage kois that are available in the last few years.



Albino "Black" Pearlscale angelfish



Albino "Black" Pearlscale angelfish pair



Black pearlscale x Albino "Black" Pearlscale angelfish pair



Marble Pearlscale angelfish pair

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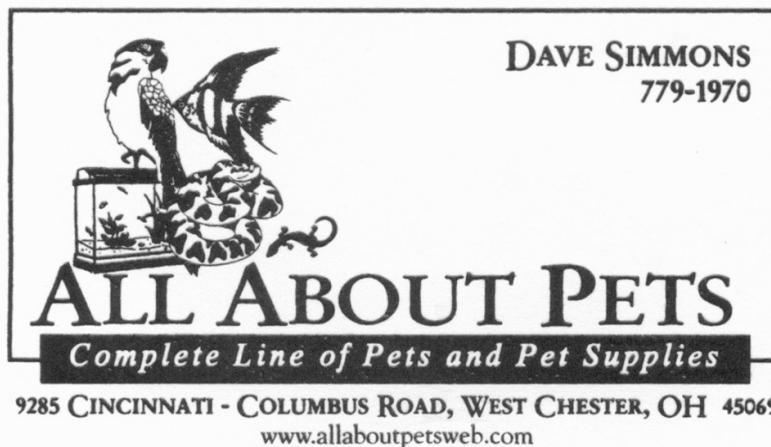
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2009 BAP Summary

Following is a complete listing of BAP spawns turned in for 2009.

2009 BAP Results

Last Name	Breeder	Class	Genus	Species	Variety	Month	Common Name
Anderson	Tony & Sue	1	Xiphophorus	helleri	N/A	01	Green Swordtail
Anderson	Tony & Sue	1	Xiphophorus	montezu-	N/A	02	Montezuma's
Anderson	Tony & Sue	1	Poecilia	sphenops	Black	05	Black Molly
Anderson	Tony & Sue	1	Xenotoca	eiseni	N/A	08	Red Tailed
Anderson	Tony & Sue	1	Xiphophorus	nezahual-	N/A	08	Northern Mountain
Anderson	Tony & Sue	1	Poecilia	wingei	N/A	09	Endler's Livebearer
Anderson	Tony & Sue	1	Ameca	splendens	N/A	11	Butterfly Goodeid
Anderson	Tony & Sue	2	Scleromystax	barbatus	N/A	08	Bearded Cory
Anderson	Tony & Sue	2	Corydoras	sp.	C-089	09	
Anderson	Tony & Sue	2	Corydoras	duplicareus	N/A	11	
Anderson	Tony & Sue	2	Corydoras	ehrharti	N/A	11	Ehrhardt's Cory
Anderson	Tony & Sue	7	Apistogramma	caca-	Triple Red	05	Cockatoo Cichlid
Babka	Ed	7	Astatotilapia	latifasciata	N/A	03	Zebra Obliquidens
Babka	Ed	7	Aequidens	portalegen-	N/A	05	Port Cichlid
Benes	Phil & Jan	3	Cyprinus	carpio	N/A	08	Ornamental Koi
Camp	Jeff	1	Xiphophorus	variatus	N/A	01	Platy
Chapman	Candy	1	Poecilia	reticulata	Blond	02	Fancy Guppy
Chapman	Candy	2	Corydoras	aeneus	Albino	11	Albino Cory
Christy	Marcus	7	Guianacara	sp.	Rio Caro-	02	
Christy	Marcus	7	Lamprologus	ocellatus	Gold	02	Gold Ocellatus
Christy	Marcus	7	Guianacara	sp.	Rio Caro-	04	
Christy	Marcus	7	Guianacara	geayi	N/A	05	
Cook	Dave	1	Ameca	splendens	N/A	06	
Cook	Dave	1	Limia	tridens	N/A	06	
Cook	Dave	1	Limia	sp.	Tiger	09	Tiger Limia
Cook	Dave	3	Celestichthys	margari-	N/A	01	Galaxy Danio
Cook	Dave	3	Danio	rerio	Long fin frankei	05	Long Finned Leop- ard Danio
Cook	Dave	3	Danio	roseus	N/A	05	

Cook	Dave	3	Devario	assamensis	N/A	06	
Cook	Dave	3	Puntius	padmya	N/A	06	Odessa Barb
Cook	Dave	4	Nematobrycon	amphiloxus	N/A	01	Black Emperor Tetra
Cook	Dave	5	Aphyosemion	louessense	RPC 33	08	
Cook	Dave	5	Aphyosemion	primeginium	GBN 88-10	08	
Cook	Dave	6	Badis	buxar	N/A	01	
Cook	Dave	6	Betta	pallifina	N/A	05	
Cook	Dave	6	Betta	patoti	Kalimantan	08	Tiger Betta
Cook	Dave	6	Betta	macrostoma	N/A	09	Peacock Betta
Cook	Dave	6	Betta	rubra	N/A	11	
Cook	Dave	7	Apistogramma	sp.	Abacaxis	05	
Cook	Dave	7	Haplochromis	sp.	"Ruby Green"	05	Ruby Green Hap
Cook	Dave	7	Lamprologus	multifasciatus	N/A	05	Multi Shell Dweller
Cook	Dave	7	Tramitochromis	intermedius	N/A	05	
Cook	Dave	7	Telmatochromis	dhonti	N/A	06	
Cook	Dave	7	Apistogramma	schwarzskinn	A-199	08	Black Chin Apisto
Cook	Dave	7	Pelvicachromis	taeniatus	Nigerian Red	08	Striped Kribensis
Cook	Dave	7	Apistogramma	iniridae	N/A	09	
Cook	Dave	7	Pelvicachromis	taeniatus	Dehane	11	
Cook	Dave	12	Pseudomugil	furcatus	N/A	05	Blue-Eyed Rainbow
Cook	Dave	12	Melanotaenia	praecox	N/A	09	
Garcia-Pinal	Ramon	2	Peckoltia	sp.	L-377	01	Prince Tiger Pleco
Gundrum	Erwin	1	Girardinichthys	multiradiatus	N/A	02	Gold Sailfin Goodeid
Gundrum	Erwin	2	Aspidoras	albater	N/A	02	
Gundrum	Erwin	2	Hypancistrus	sp.	L-66	02	King Tiger Pleco
Gundrum	Erwin	2	Peckoltia	sp.	L-377	02	Prince Tiger Pleco
Gundrum	Erwin	7	Labeotropheus	fulleborni	N/A	02	Marmelade Cat
Hargis	Tim	1	Xiphophorus	montezumae	N/A	09	Montezuma's Swordtail
Hargis	Tim	7	Astatotilapia	latifasciata	N/A	01	Zebra Obliquidens
Hargis	Tim	7	Nimbochromis	venustus	N/A	05	Venustus
Hargis	Tim	7	Neolamprologus	brichardi	N/A	06	Brichardi

Hargis	Tim	7	Labidochromis	sp.	perlmutter	08	
Isgro	Thomas	1	Xiphophorus	montezuma	N/A	05	Montezuma's Sword-tail
Jacobsen	Eric	1	Xiphophorus	birchmani	N/A	01	
Jacobsen	Eric	1	Gambusia	holbrooki	N/A	06	
Jacobsen	Eric	1	Xenotoca	variata	N/A	09	Jeweled Goodeid
Jacobsen	Eric	1	Limia	vittata	N/A	11	Cuban Molly
Jacobsen	Eric	1	Xiphophorus	nezahualcoyotl	N/A	11	Nezy Swordtail
Jacobsen	Eric	2	Aspidoras	albater	N/A	01	
Jacobsen	Eric	2	Corydoras	sp.	Aeneus Gold	09	Gold Shoulder Aeneus
Jacobsen	Eric	6	Trichogaster	leeri		05	Pearl Gourami
Johnson	Mark	2	Ancistrus	sp.	N/A	08	Brown Bushynose Pleco
Johnson	Mark	7	Neolamprologus	pulcher	Daffodil	08	Daffodil Cichlid
Kelley	Patrick	1	Poecilia	wingei	N/A	05	Endler's Livebearer
Kelley	Patrick	1	Xiphophorus	helleri	Pineapple	05	Pineapple Swordtail
Kelley	Patrick	7	Labidochromis	caeruleus	N/A	05	Yellow Lab
Kelley	Patrick	7	Protomelas	sp.	Steveni Taiwan	05	
Kelley	Patrick	7	Pseudotropheus	lambardoi	N/A	05	Kenya Cichlid
Kelnhofer	Jeremy	3	Carassius	auratus	N/A	09	Goldfish
Kelnhofer	Jeremy	7	Lamprologus	congoensis	N/A	11	
Kelsey	Bert & Marsha	2	Aspidoras	albater	N/A	11	
Kelsey	Bert & Marsha	2	Corydoras	aeneus	Gold Shoulder	11	
Kelsey	Bert & Marsha	2	Corydoras	panda	N/A	11	Panda Cory
Kelsey	Bert & Marsha	2	Corydoras	sterbai	N/A	11	Sterba's Cory
Kelsey	Bert & Marsha	7	Apistogramma	sp.	Rotpunkt	11	
Kelsey	Bert & Marsha	7	Nannacara	anamola	N/A	11	Chameleon Cichlid
Leising	Todd	1	Poecilia	wingei	N/A	01	Endler's Livebearer
Leising	Todd	1	Poecilia	reticulata	Half Black	02	Fancy Guppy
Leising	todd	1	Xiphophorus	maculatus	Silver Flame Crescent	08	Mickey Mouse Platy
Leising	Todd	1	Xenotoca	eiseni	N/A	11	Red Tailed Goodeid
Leising	Todd	2	Ancistrus	cf.	cirrhusus	05	Bushy Nose Pleco
Leising	Todd	7	Labeotropheus	trewavasae	N/A	01	

Leising	Todd	7	Metriaclima	greshakei	Ice Blue	01	
Leising	Todd	7	Otopharynx	lithobates	Thumbi West	01	
Leising	Todd	7	Lepidolamprologus	hecqui	Isanga	02	
Leising	Todd	7	Steatocranus	casuarius	N/A	02	Buffalo Head
Leising	Todd	7	Callochromis	stappersii	Kashenge Red	05	
Leising	Todd	7	Cyathopharynx	foai	Sibwesa	05	Sibwesa Feather
Leising	Todd	7	Julidochromis	marlieri	Gombi	05	Marlier's Julie
Leising	Todd	7	Paracyprichromis	nigripinnis	Kapembwa	05	
Leising	Todd	7	Telmatochromis	dhonti	N/A	05	
Leising	Todd	7	Enantiopus	sp.	Kilesa	06	
Leising	Todd	7	Labidochromis	caeruleus	N/A	06	Yellow Lab
Leising	Todd	7	Amnatitlania	nigrofascia-	Pink	08	Pink Convict
Leising	Todd	7	Cyprichromis	sp	Leptosoma Jumbo	08	
Leising	Todd	7	Julidochromis	transcriptus	N/A	08	
Leising	Todd	7	Pseudotropheus	socolofi	N/A	08	Socolofi
Leising	Todd	7	Sciaenochromis	fryeri	N/A	08	Electric Blue Hap
Leising	Todd	7	Ophthalmotilapia	boop	Nkondwe	09	
Leising	Todd	7	Tropheus	moorii	Red Rainbow	09	Red Rainbow tro-
Leising	Todd	7	Tropheus	sp.	Black Bulu Point	09	Cherry Spot Tro-
Leising	Todd	7	Chalinochromis	brichardi	N/A	11	Masked Brichardi
Leising	Todd	7	Cyprichromis	sp.	Leptosoma Jumbo	11	
Leising	Todd	7	Julidochromis	dickfeldi	N/A	11	
Leising	Todd	7	Labidochromis	sp.	Hongi	11	Red Top Kim-puma
Leising	Todd	7	Otopharynx	tetraspilus	Mloto	11	Mloto Yellow Prin-
Llambi	Lenny	7	Enigmatochromis	lucanusii	N/A	08	Guinea Blue Fin
Mayfield	Chris & Mandy	1	Poecilia	sphenops	Orange Creamcicle	01	Creamcicle Molly
Mayfield	Chris & Mandy	1	Xiphophorus	maculatus	Neon Blue	03	Neon Blue Moon
Mayfield	Chris & Mandy	1	Xiphophorus	maculatus	Red Wag	03	Red Wag Platy
Mayfield	Chris & Mandy	1	Limia	vittata		05	Cuban Molly
Mayfield	Chris & Mandy	1	Poecilia	velifera	N/A	05	Yucatan Molly
Mayfield	Chris & Mandy	1	Xenotoca	eiseni	N/A	05	Red Tailed

Mayfield	Chris & Mandy	1	Xiphophorus	montezumae	N/A	05	Montezuma's Sword-tail
Mayfield	Chris & Mandy	1	Xiphophorus	variatus	Hi-Fin	05	Hi-Fin Platy
Mayfield	Chris & Mandy	1	Poecilia	vivipara	N/A	06	Spotsided Livebearer
Mayfield	Chris & Mandy	1	Gambusia	affinis	N/A	09	Western Mosquitofish
Mayfield	Chris & Mandy	1	Poecilia	latipinna	N/A	09	Sailfin Molly
Mayfield	Chris & Mandy	1	Poecilia	salvatoris	N/A	09	Liberty Molly
Mayfield	Chris & Mandy	1	Poecilia	sphenops	Gold Dust	09	Gold Dust Molly
Mayfield	Chris & Mandy	1	Xiphophorus	birchmani	N/A	11	Sheepshead Sword-tail
Mayfield	Chris & Mandy	1	Xiphophorus	nezahualcoyotl	N/A	11	Nezy Swordtail
Mayfield	Chris & Mandy	2	Corydoras	paleatus	Long Fin	01	Peppered Cory
Mayfield	Chris & Mandy	4	Pristella	maxillaris	N/A	09	Pristella Tetra
Mayfield	Chris & Mandy	7	Lamprologus	ocellatus	N/A	01	Gold Ocellatus
Mayfield	Chris & Mandy	7	Neolamprologus	brichardi	N/A	01	Brichardi
Mayfield	Chris & Mandy	7	Aulonocara	hansbaenschi	Regal Red Shoulder	03	Regal Peacock
Mayfield	Chris & Mandy	7	Haplochromis	sp.	Ruby Green	03	Ruby Green Hap
Mayfield	Chris & Mandy	7	Lamprologus	brevis	Ikola	03	Sunspot Brevis
Mayfield	Chris & Mandy	7	Cichlasoma	salvini	N/A	05	Salvin's Cichlid
Mayfield	Chris & Mandy	7	Cyprichromis	leptosoma	Blue Flash	05	
Mayfield	Chris & Mandy	7	Julidochromis	marlieri	N/A	05	Marlier's Julie
Mayfield	Chris & Mandy	7	Pelvicachromis	pulcher		05	Kribensis
Mayfield	Chris & Mandy	7	Lepidolamprologus	hecqui	N/A	06	Hecqui Sheldweller
Mayfield	Chris & Mandy	7	Aulonocara	baenschi	N/A	11	
Mayfield	Chris & Mandy	7	Pseudotropheus	polit	N/A	11	
Mayfield	Chris & Mandy	7	Tropheus	moorii	Golden Kazumba	11	
Mitchell	Karen & Kellee	1	Poecilia	sphenops	Black	01	Black Molly
Mitchell	Karen & Kellee	12	Rhodinocentrus	ornatus	Teewah Creek	01	
Mitchell	Karen & Kellee	12	Pseudomugil	furcatus	N/A	05	Blue-Eyed Rainbow
Murtaugh	Mark	1	Girardinus	metallicus	N/A	06	Black Chin Live-bearer
Murtaugh	Mark	5	Aphyosemion	australe	EBT 96-27	06	
Oliver	Craig	1	Dermogenys	pusillus	N/A	09	Malayan Halfbeak
Oliver	Craig	7	Dicrossus	filamentosus	N/A	09	Checkerboard Cichlid

Oliver	Craig	7	Nannacara	anamola	N/A	09	Chameleon Cichlid
Oliver	Craig	7	Pterophyllum	scalare	N/A	09	Angelfish
Pitzer	Shaun	2	Ancistrus	cf.	cirrhusus	06	
Pitzer	Michael	7	Archocentrus	nanoluteus	N/A	01	
Pitzer	Michael	7	Julidochromis	marlieri	Gombi	03	Marlier's Julie
Pitzer	Shaun	7	Lamprologus	multifasciatus	N/A	06	Multi Shell Dweller
Pope	Mike	2	Corydoras	trilineatus	N/A	08	False Julii Cory
Pope	Mike	2	Corydoras	aeneus	N/A	11	Bronze Cory
Pope	Mike	2	Corydoras	sterbai	N/A	11	Sterba's Cory
Riegel	Jerry	7	Cyprichromis	sp.	Kitumba	01	
Riegel	Jerry	7	Altolamprologus	calvus	White	04	White Calvus
Roberts	Michael	1	Poecilia	reticulata	All Red	05	All Red Guppy
Roberts	Michael	1	Gambusia	holbrooki	N/A	08	Eastern Mosquito Fish
Roberts	Michael	1	Girardinus	metallicus	N/A	08	Black Chin Livebearer
Roberts	Michael	1	Poecilia	wingei	N/A	08	Endler's Livebearer
Roberts	Michael	1	Xenotoca	eiseni	N/A	08	Red Tailed Goodeid
Roberts	Michael	1	Xiphophorus	helleri	Calico	08	Calico Swordtail
Roberts	Michael	1	Xiphophorus	maculatus	Mickey Mouse	09	Mickey Mouse Platy
Roberts	Michael	1	Xiphophorus	montezumae	N/A	11	Montezuma's Swordtail
Roberts	Michael	7	Julidochromis	marlieri	N/A	02	
Roberts	Michael	7	Altolamprologus	compressiceps	Sumbu Dwarf	05	
Roberts	Michael	7	Lepidolamprologus	hecqui	N/A	06	Hecqui Sheldweller
Roberts	Michael	7	Haplochromis	sp.	Ruby Green	09	Ruby Green Hap
Roberts	Michael	7	Tropheus	moorii	Golden Ka-	11	
Ryan	Laurie	7	Hemichromis	bimaculatus	N/A	05	Red Jewel Cichlid
Saxon	Ken	7	Archocentrus	nanoluteus	N/A	09	Yellow Convict
Saxon	Ken	7	Cleithracara	maronii	N/A	09	Keyhole Cichlid
Schoening	Klaus	5	Fundulopanchax	nigerianum	CI 2008	11	Yellow Gardneri
Schoening	Klaus	5	Fundulopanchax	scheeli	N/A	11	
Schoening	Klaus	5	Fundulus	cingulatus	Pensacola	11	Banded Topminnow
Shepard	Peter	2	Tatia	perugiaae	N/A	08	Wood Catfish

Smith	Michael	1	Ameca	splendens	N/A	08	Butterfly Goodeid
Smith	Mike	1	Girardinus	metallicus	N/A	11	Metallic Livebearer
Smith	Michael	2	Corydoras	adolphi	N/A	06	Adolf's Cory
Smith	Michael	2	Corydoras	weitzmani	N/A	06	Two Saddle Cory
Smith	Michael	2	Tatia	intermedia	N/A	08	Snowflake Wood-
Smith	Steven	6	Pseudosphromenus	cupanus	N/A	05	Spiketail Gourami
Smith	Michael	7	Lamprologus	ocellatus	N/A	06	Gold Ocellatus
Smith	Steven	7	Pterophyllum	scalare	N/A	11	Angelfish
Stuftt	Chris	1	Poecilia	reticulata	Half Black	03	Half Black Guppy
Stuftt	Chris	1	Xiphophorus	helleri	Red Velvet	03	Red Velvet Sword
Stuftt	Chris	1	Limia	vittata		05	
Stuftt	Chris	1	Xenotoca	eiseni		05	Red Tailed
Stuftt	Chris	2	Corydoras	aeneus	Abino	03	Albino Cory
Stuftt	Chris	6	Betta	splendens	Crown Tail	06	Crown Tail Betta
Stuftt	Chris	7	Astatotilapia	latifasciata	N/A	01	Zebra Obliquidens
Woehr	Rob	3	Puntius	conchoniis	N/A	01	Rosy Barb
Woehr	Rob	3	Puntius	tetrazona	N/A	01	Tiger Barb
Woehr	Rob	3	Puntius	titteya	N/A	01	Cherry Barb
Woehr	Rob	3	Puntius	oligolepis	N/A	09	Checkerboard Barb
Woehr	Rob	3	Puntius	semifaciolatus	N/A	09	Gold Barb
Zerkle	Amy & Rob	1	Limia	sp.	Tiger	01	Tiger Limia
Zerkle	Amy & Rob	1	Xiphophorus	nezahualcoyotl	N/A	01	Nezy Swordtail
Zerkle	Amy & Rob	1	Ameca	splendens	N/A	02	Butterfly Goodeid
Zerkle	Amy & Rob	1	Poecilia	wingei	N/A	02	Endler's Livebearer
Zerkle	Amy & Rob	1	Ataeniobius	toweri	N/A	05	Blue-Tail Goodeid
Zerkle	Amy & Rob	1	Gambusia	affinis	N/A	08	Dalmation Gam-
Zerkle	Amy & Rob	1	Poecilia	latipinna	Dalmation	08	Dalmation Sailfin Molly
Zerkle	Amy & Rob	1	Xiphophorus	montezumae	N/A	08	Montezuma's Swordtail
Zerkle	Amy & Rob	1	Allotoca	dugesii	N/A	08	Bumblebee Al-
Zerkle	Amy & Rob	1	Limia	tridens	N/A	09	
Zerkle	Amy & Rob	1	Poecilia	reticulata	Paramaribo, Surinam	09	Guppy

Zerkle	Amy & Rob	1	Skiffia	multipunctata	Lago de Camécuaro	09	
Zerkle	Amy & Rob	1	Xenotoca	variata	N/A	09	Jeweled Goodeid
Zerkle	Amy & Rob	1	Xiphophorus	maculatus	N/A	09	Pin Tail Platy
Zerkle	Amy & Rob	1	Alfaro	cultratus	N/A	11	Knife-edge Livebearer
Zerkle	Amy & Rob	1	Skiffia	multipunctata	N/A	11	Sawfin Goodeid
Zerkle	Amy & Rob	1	Xiphophorus	mayae	N/A	11	
Zerkle	Amy & Rob	5	Poropanchax	normani	N/A	05	Norman's Lampeye
Zerkle	Amy & Rob	7	Pelvicachromis	pulcher	N/A	01	Kribensis
Zerkle	Amy & Rob	7	Amnatitlania	nigrofasciatus	Pink	02	Red Breasted Tilapia
Zerkle	Amy & Rob	7	Labeotropheus	trewavasae	N/A	02	
Zerkle	Amy & Rob	7	Tilapia	rendalli	Killi River	02	Pink Convict
Zerkle	Amy & Rob	7	Anomalochromis	thomasi	N/A	08	African Dwarf Butterfly Cichlid



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