

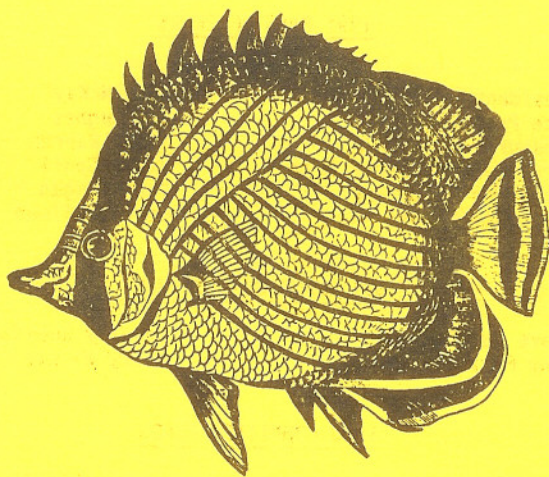
* DELTA TALE *

Jan/Feb 1991

vol 27 #1

OFFICIAL PUBLICATION OF

potomac valley aquarium society



The Delta Tale is published for the benefit of the membership of the Potomac Valley Aquarium Society, Inc, a non-profit educational and social organization. The Society was founded in 1960 for the purposes of furthering the aquarium hobby by the dissemination of information and advice, and to the promotion of good fellowship among the membership by organized activities and competitions. All correspondence to the Society and to Delta Tale should be directed to Box 6219, Shirlington Station, Arlington, VA 22206. Original articles and artwork appearing in Delta Tale may be reprinted by other non-profit organizations if credit is given to the author, Delta Tale, and PVAS. Two copies of the reprinting publication should be sent to Delta Tale; please include the author's name so that a copy of the publication can be forwarded to him or her. The Society and Delta Tale disclaim any responsibility for the content or availability of advertised merchandise or services within this publication.

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Bowl Shows:	Larry Wilkie
Programs:	
Ways and Means:	
FAAS Delegate:	Gerry Hoffman
<u>Delta Tale</u> Editor	John Mangan

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PRESIDENT'S PAGE

The holidays are over and it is the start of a new year--a year that I hope will be an exciting one for our club. There are many things I would like to see the club accomplish this year, and with some help from the members, I think we can set goals that are obtainable.

One of the things I would like to see the club work towards is increasing the membership and membership participation. The club needs to publicize itself more in order to attract new members, both the beginning hobbyist and the more advanced aquarist. Once we get their attention, we need to offer programs and events that will encourage participation in the club. There are a large number of experts in the aquarium industry in the Washington/Baltimore area whom we could ask to address our monthly meetings. Also, with Tetra's Aquarium Society Speaker Program, we can cast further afield in our search for speakers. If we offer interesting, informative and educational monthly meetings, we will increase the appeal of our club to the current members and attract new ones too.

I would like to encourage all members of the Potomac Valley Aquarium Society to give some serious thought to what they would like to see the club accomplish in 1991. I also encourage you to contact me or other board member and let us know what you think. Your ideas are welcomed and needed.

Finally, but most importantly, I would like to thank Pete Thrift for the two years he served as president of the PVAS. Pete worked long and hard for our club and we all benefitted from his leadership. We all owe him a great deal of thanks. Now that the baton has been passed on to me, I hope to take up from where Pete left off.



FROM THE EDITORS DESK

Here we are, starting another new year. It's a traditional time to make changes, start anew, try different things. With that in mind I am going to try something different. Instead of using my editorial page to complain about the fact that I haven't received any articles or artwork (which I haven't) I am going to use it to complain about something else. One of the fun things about being an editor is that you can sit around and complain and people will just say "he's an editor, it's his job to complain" ie write editorials. If we weren't editors people would say "what a whiner, all he does is sit around and complain". It's one of the few things that make the job worthwhile.

The thing I'm going to complain about this month is specialization. As many of us progress in our hobby we move from being a generalist with a community tank to being a specialist with many tanks of one family or even one species of fish. I have nothing against this in general. Specialists have an important place in the hobby. They are usually the ones that will discover the secrets to keeping and breeding new species of fishes and make it easier for the non-specialist to keep them. Fishes that were once rare in the hobby are now common thanks to the hard work and knowledge of specialists.

My complaint with specialists is that many of them become so wrapped up in their specialty that they totally ignore or even scorn anything outside of it. You could probably walk into a meeting of any fish club in the world and find people like this. Many of them are very intelligent, competent hobbyists. They can go on for hours telling you every little detail about a fish in their specialty, but mention something else and they are totally lost, uninterested, and in some cases an otherwise intelligent person comes across as looking downright stupid. Talk to these people about something outside of their specialty and you'll see what I mean. This is the "dark side" of specialization. Just think of Darth Vader with a tank full of cichlids (or killies, or Bettas, Or even Goodeids for that matter). Don't let yourself become this type of specialist and if you have try to change. There is an old saying that an expert is someone who knows more and more about less and less, until finally he knows absolutely everything about nothing.

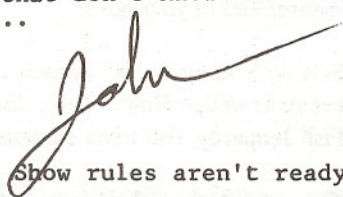
Just because you specialize in one group of fishes doesn't mean that those are the only thing you can read about, talk about, or enjoy. There is something interesting about every group of fishes. Next time you pick up an aquarium magazine try reading all of the articles, not just the one on your fish. You'll be surprised at what you may learn. It's common to discover something in an article about a group of fish that has no connection what-so-ever to yours that can be applied to a problem that you have. If nothing else you will be able to walk into a room full of aquarists and have a reasonable conversation with just about anyone, no matter what their specialty. When they mention the new Aphyosemion or Lamprologus they just bought you won't have to just stand there with a blank look on your face like a moron. You'll have at least an idea of what they are talking about, and may even be able to say "oh yeah, I saw that in FAMA. I'd like to get some if they breed for you." Yes, you may even find

yourself wanting to try something different, and enjoying it. I'll even go so far as to admit in print that among my tanks of livebearers is an entire tank full of cichlids, and I like them! So keep an open mind, broaden your horizons, you'll be glad you did.

We now return to our regular program, already in progress...

issue is traditionally our business issue. You will find the complete Breeders Award Program rules plus Bowl Show Rules in this issue. I'd like to urge all of you to read these and try to participate more this year in both of these programs. Both of these had been very popular in the past but have been suffering from lack of membership support the past few years.

That's all until next time when I'll complain, I mean editorialize about those annoying subscription cards that they stick in magazines, or maybe people that don't use coasters and leave those little rings on your furniture, or what about editors that don't know how to spell, now that really bugs me, or maybe...



p.s. just found out that the revised Bowl Show rules aren't ready yet. Hopefully we'll have them next issue.

WHAT'S HAPPENING

January:

Program- Breeders Award Program. See a lot of excellent slides, all taken by PVAS members.

Raffle

Door Prize

Bowl Show- this months category Livebearers, Open.

Mini-auction

February:

Program: not known at press time

Raffles

Door Prize

Mini-auction

Bowl Show- not known at press time. We'll try to announce it at the Jan. meeting.

5th Annual FISHNET Winter Weekend Workshop

February 1st through 3rd, 1991

The fifth annual Winter Weekend Workshop (WWW/5) has been announced by John Benn, head of CompuServe's® electronic fish club, FISHNET. This online show, accessible to all aquarists with a computer, will take place from Friday, February 1st through Sunday, February 3rd, 1991.

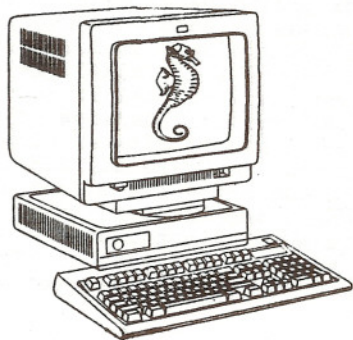
This is the one show for which you don't have to leave your home, drive all day, or fight the crowds at the auction table. It's the fish show you can attend on your own time, at your leisure, and in your home.

WWW/5 features talks by nationally known aquarists and columnists during the three-day event, as well as Round Table discussions, game shows such as the Fishy Wheel of Fortune, Fish Jeopardy, fish trivia contests (word games), and a scavenger hunt.

Throughout the whole event, visitors to the show will earn "fishy bucks" for their participation that can be spent at Sunday's auction. Last year's auction gave away over \$750 worth of aquarium and pond supplies and merchandise, ranging from filters to plants to test kits.

Throughout the weekend, representatives from fish specialty groups will be on hand to answer questions one-on-one about their groups. A new WWW/5 feature this year will be a special conference room dedicated to manufacturers and vendors, where representatives will be available to answer questions about using products from pumps to water additives.

For information about WWW/5, contact John Benn, 102 Hiram Street, Sheffield, Alabama 35660, (205) 381-4945 or via CompuServe using ID 76703,4256. For a free introductory membership in CompuServe® with a \$15.00 usage credit, just call 1-800-848-8199 and ask for Representative #164.



Aquaria/Fish Forum & Aquatic Data Center

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for the Aquarist*

ZEBRAFISH FOR SCIENCE

Tony Fitz, PVAS

The popular zebrafish is becoming an important scientific model for scientists studying developmental biology. Science magazine, in its 5 October 90 issue, reports that a dozen or more research laboratories worldwide have turned recently to the zebrafish in order to determine patterns of cellular organization in growing embryos.

Rare is the aquarist who has never had a zebrafish. These attractive little (2 inches) danios make outstanding community fish, since they are hardy, peaceful and undemanding. However, the scientists are interested in other characteristics of the zebrafish. One, zebras are very prolific, capable of producing large numbers of eggs in a short period of time. Two, the eggs develop quickly and hatchling grow fast, so that new generations can be produced in as little as three months. Three, the embryos develop in clear shells, so that exotic manipulations of the embryo are possible at any stage in its development.

Research involving the zebrafish is still in its infancy, but the Science article relates information of some zebrafish research. In one experiment, muscle and nerve cell precursors were harvested from one embryo and transplanted to another, in order to study how the different cell types influenced the patterns of cellular differentiation. In another experiment, foreign genetic material was introduced into embryo cells to determine the factors which influence mutations.

It is good news that our aquatic pets are becoming important participants in the ongoing process of scientific discovery. Not only will we learn more about what makes a zebrafish tick, but the information may ultimately provide increased understanding of the biology of all vertebrates including man. We also just might see a sudden demand in zebrafish for all of these experiments. While the Science article doesn't mention zebrafish research in our area (Oregon appears to be the hotspot of zebrafish research in this country), it may come to pass in the near future that we will find a new source of demand for our zebrafish spawning efforts.

Personally, I am still hoping to learn of a sudden scientific demand for killifish!

PVAS BOARD MEETING November 5, 1990

President Pete Thrift convened the meeting at 7:40 pm, chez Bob Pallansch; also attending were Gene Aldridge, John Jessup, Ray Hughes, Rick McKay, Juliet Spell, and Kenny Warren.

Announcements:

Julie will coordinate the December dinner and Pete will bring the Ham; gifts should be under \$5.00.
Bowl show winners must be determined for '89 and '90; categories for '91 need revision.

Workshop critique:

The auction grossed \$3831, netted \$1450 (Gene).
The auction was too long and suffered from category overload (angelfish!); suggestions included lowering the item limit, raising PVAS' share of the proceeds, raising starting bids; tighter control of red-dot usage.
The banquet speakers were deemed excellent, the food the best in years.

'91 Show:

Pete urged dispensing with brochure ads due to copy-quality problems.
Siting; the Wood Center is available in late May; other sites were suggested, but must be chosen by January to provide planning and publicity lead time.

Problems of member lethargy were discussed; slow economy, diffused hobby, etc.

The meeting adjourned at 9:15.

Respectfully submitted,



Robert J. Pallansch
Recording Secretary

MARINE WORD FIND
BY MICHELLE MANGAN

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A L D J M A R I N E P A H G E I T S
N E I L A G S U O D B A R C P C B T
G D C B R I S N Y E A H J O Q U W X
T A L N K F E E G N I Y P R S Q E E
X M T H Z R N E S C R G N A T O S S
O S B N M D O C T S B F K L A H R U
I E F A T U M B C R A Z E G N S O J
J L R A R S E D R I K R O L B W H F
E C A M I P N B U P T D W O I R A S
D U F N G V A T M S R G L E T A E P
N K A W G D R I F O F F U O G S S C
P E E F E E R S N R T I X R C D P G
C L O T R H L P D E C L O W N S U V
R U L A S U E S Y B P U A D T E F L
O W M U D T N L A H P S C E N U F B
D C Y B O G F Q A E L O W N S M E T
T A M C D S L C R Z N P K Y Q B R D
G O X L S H C N A R B I D U N K S A
J U B I N R A M Q L E S T I C R P Y

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FIND THE FOLLOWING WORDS- LOOK FORWARDS, BACKWARDS, UP,
DOWN, DIAGONALLY.....

ANEMONES
CRAB
DAMSEL
MARINE
CORAL
SEAHORSES
TANG
WRASSES
TRIGGERS

ANGELS
SHRIMP
GROUPE
PUFFER
REEF
CLOWNS
NUDIBRANCHS
GOBY
SEA

**POTOMAC VALLEY AQUARIUM SOCIETY
BREEDER'S AWARD PROGRAM
(1 January 1990)**

The Potomac Valley Aquarium Society Breeder's Award Program (BAP) was established to encourage members to breed a broader variety of fish and to share with others the knowledge they have gained. The program is open to all members in good standing (except corresponding members) of the Potomac Valley Aquarium Society and there are no time limits. You proceed at your own pace. Awards are given as detailed in the rules.

PURPOSES

The purposes of the program are:

1. To promote the keeping and breeding of exotic fishes.
2. To recognize outstanding achievement in the breeding of these fishes.
3. To encourage research into the spawning of the more difficult species.
4. To make available accounts of successful spawning techniques available to club members through the DELTA TALE and through association at the general meetings.

THE BAP COMMITTEE

The Breeders Award Program Committee shall consist of five members. The Chairman shall be appointed by the President of PVAS, and the remaining four members shall be appointed by the Chairman with the advise and consent of the Board of Governors. The President of PVAS is ex officio a member of the committee.

FUNCTION AND AUTHORITY OF THE BAP COMMITTEE

The committee shall oversee and enforce all rules and regulations governing the Breeders Award Program. Among these are verifying and awarding points to qualifying members, keeping proper records, making appropriate awards to qualified members, and reviewing these rules and regulations at least once each year for possible improvements.

(Continued next page)

THE BAP CHECKERS

The BAP checkers are appointed by the BAP Chairman and are empowered to verify all spawnings. If you have a spawning which needs to be verified, contact the checker nearest you and arrange for the necessary appointment to check the fish. If you are unable to contact your nearest checker after a few days, contact one of the other checkers or a BAP Committee member. BAP Committee members are empowered to verify all spawnings. The forms which must be completed to report each spawning may be obtained from a checker or BAP Committee member.

The names of BAP checkers, their telephone numbers and areas of responsibility will be published no less than bi-monthly in the DELTA TALE.

PROGRAM ELIGIBILITY

All members of PVAS in good standing, except corresponding members, are eligible to participate in the Breeders Award Program.

THE PROGRAM

The program is composed of five (5) levels of competency. These levels and their requirements are as follows:

1. **BREEDER AWARD** -- Has attained 50 breeding points from any of the categories.
2. **INTERMEDIATE BREEDER** -- Has attained Breeder status and a total of 150 breeding points in any of the categories.
3. **ADVANCED BREEDER** -- Has attained Intermediate Breeder status and a total of 300 breeding points, including at least 100 points from categories 7-17.
4. **MASTER BREEDER** -- Has attained Advanced Breeder status and a total of 500 breeding points, having spawned at least three (3) species from the categories on the Difficult and Target Lists to achieve these points. (See Note 1, below)
5. **GRAND MASTER BREEDER** -- Has attained Master Breeder status and has spawned at least one additional species on the Target List over and above those spawned for Master Breeder status.

(Continued next page)

ACKNOWLEDGEMENTS

Attainment of any of the five levels will be recognized in the DELTA TALE and at the next general meeting. Awards are presented each December at the annual Christmas meeting.

REQUIREMENTS

1. Breeding points are awarded upon proof of spawning in any of the 17 different categories. Points may be gained only once for each species and its albino form. Variant color morphs are not eligible for additional points. (See Note 2, below)
2. Spawning is defined for a 10-point fish as raising at least ten (10) fry to thirty (30) days of age after hatch or release of fry in the case of mouthbrooders. For all other fish, spawning is defined as raising at least ten (10) fry to sixty (60) days after hatching.
3. Breeding is defined as the physical act of mating. A mating of killifish is considered to be the total quantity of eggs deposited and fertilized during a one-week period, and all fry hatched from the one-week spawn are counted as part of one brood for the purpose of satisfying the BAP requirements.
4. Spawns must be the product of eggs fertilized through breeding a pair of fish in one's own tanks, and not the result of obtaining eggs or gravid fish from another breeder and then hatching the spawn.
5. Any fish not included in the first 16 categories or which you feel is not adequately covered in existing categories will be assigned points by the BAP Committee upon written request. This request must be made prior to the awarding of points. The attached Request for Special Category Assignment form is to be used for filing this request.
6. Following a successful spawning, it is the breeder's responsibility to assure that his points have been properly verified and reported. A spawning report must be submitted in order to receive points. A copy of the Breeder's Award Form, that is to be used for this purpose, is attached. Additional forms may be obtained from your checker.

(Continued next page)

REQUIREMENTS (Cont'd)

7. The requirement for ten (10) fry may be waived by the BAP Committee when a fish is known to generally produce less than that number in an average spawn. The Request for Special Category Assignment form will be used to request such a waiver for 15-point fish and above. For 10-point fish, a comment may be made in the "Remarks" section of the Breeder's Award Form.
8. There is no intent under this program to require the tearing down of a tank to look for eggs. The sight of free swimming fry is sufficient to trigger the start of the reporting process. Questions in this area should be referred to a Committee member for resolution.

PROOF OF SPAWNING

Proof of spawning is defined as follows:

1. The first verification/inspection for all categories of breeding must be performed within ten (10) days of hatching (for killifish, beginning of hatching). For 10-point fish, this first notification may be made telephonically to a checker, or any other member of PVAS in good standing, who can then verify the call by signing the Breeder's Award Form at the next meeting. All 15-point and higher-category spawns must be verified and inspected within ten (10) days by a checker or BAP Committee member.
2. The second verification and inspection for all categories must be done by a BAP checker or BAP Committee member. Depending upon the category, the fry must be thirty (30) or sixty (60) days old, and in the correct number, at the time of the inspection. If you wish, the ten (10) fry may be brought to a general meeting for verification.
3. For all 15-point and higher category spawnings, a summary of the spawning procedure must be submitted, either orally at a general meeting, or in writing, for publication in the DELTA TALE. This written or oral report must be submitted within four (4) months of submission of the Breeder's Award Form to receive proper credit for the spawn.

(Continued next page)

PROOF OF SPAWNING (Cont'd)

4. For all categories, a Breeder's Award Form must be submitted to the BAP Committee. Any spawning may be investigated at any time by the BAP Committee.
5. Any BAP Committee member or checker wishing to claim points for a spawn must do so in the prescribed manner. In addition, in the case of Difficult or Target Fish, he must have two checkers on each occasion to confirm the spawn.

CHANGES AND MODIFICATIONS TO THE RULES

From time to time the Committee may feel that certain changes or modifications in the rules may be advisable. The Committee will adhere to the following procedures should it wish to make changes or modifications to the rules and regulations:

1. A date for the change or modification will be chosen by the Committee.
2. The proposed change, with the effective date, will be published in a conspicuous manner in the DELTA TALE at least three (3) months before the effective date of the change.
3. Special requests for category changes should be submitted on the Request for Special Category Assignment form. The requestor will be notified in writing as to the action taken.
4. All appeals from the rulings of the BAP Committee must be made in writing to the PVAS Board of Governors for final decision.
5. No reduction in points will be retroactive. However, when a change results in upgrading points, award of additional points to the breeder depends upon his/her meeting all of the additional requirements imposed upon that category. This rule holds true for all who benefit from its effect.

(Continued next page)

CATEGORIES

The Categories and their breeding point values are as follows:

- Category 1 - 10 points -- Any species of livebearing fish, except as noted elsewhere.
- Category 2 - 10 points -- Any mouthbrooding cichlid (African or New World), except as noted elsewhere.
- Category 3 - 10 points -- Any species of cichlid, except as noted elsewhere.
- Category 4 - 10 points -- White Clouds, or any species of rainbow, danio, or brachidanio.
- Category 5 - 10 points -- Any species of barbs.
- Category 6 - 10 points -- Any killifish, except as noted elsewhere. (See Note 3)
- Category 7 - 15 points -- Bottom spawning African killifish (See Note 3), the *Glossolepsis* genus, and any species of anabantoid other than the Chocolate or Kissing Gourami.
- Category 8 - 15 points -- Goldfish or koi.
- Category 9 - 15 points -- *Badis Badis*, angel fish, any species of gobies, *Elassoma evergladei*, the genus *Geophagus*, except as noted elsewhere, or any species known as a dwarf cichlid. A dwarf cichlid is one that does not exceed four (4) inches at maturity.
- Category 10 - 15 points -- Any endemic Rift-Lake substrate spawning cichlid, except as noted elsewhere.
- Category 11 - 20 points -- New World large cichlids, except as noted elsewhere.
- Category 12 - 20 points -- Any species of catfish, except as noted elsewhere.

(Continued next page)

CATEGORIES (Cont'd)

- Category 13 - 25 points -- Any species of bottom-spawning South American killifish. (See Note 3).
- Category 14 - 25 points -- Any species of characin, except as noted elsewhere.
- Category 15 - 30 points -- DIFFICULT SPECIES (See following)
- Category 16 - 50 points -- TARGET SPECIES (See following)
- Category 17 - Various -- SPECIAL ASSIGNMENT
- 17(a) - 15 points -- The genus *Tropheus*
 - 17(b) - 15 points -- *Cyphotilapia frontosa*
 - 17(c) - 20 points -- *Etroplus maculatus* (Orange Chromide)
 - 17(d) - 10 points -- Less than 10 fry/spawn of any of the following:
 - Brachyphapsis rhabdophora*
 - Gambusia affinis affinis*
 - Gambusia punctata*
 - Heterandria bimaculata*
 - Heterandria formosa*
 - Poecilia latipunctata*
 - 17(e) - 15 points -- Less than 10 fry/spawn of any of the following:
 - Cyprichromis nigripinnis*
 - Lamprologus meeli*
 - 17(f) - 30 points -- *Belonsox belizanus*
(Considered a DIFFICULT SPECIES)

DIFFICULT SPECIES LIST

This is a list of species whose spawnings have been recorded but can still be considered rare or difficult. At the present time, the list is as follows:

1. Any species of *Discus* (*Symphysodon*).
2. Neon Tetra (*Hyphessobrycon innesi*) or Cardinal Tetra (*Hyphessobrycon axelrodi*).
3. Kissing Gourami (*Helostoma temminckii*).
4. Any species of Silver Dollar or Piranhas (*Serrasalmus*, *Rooseveltiella*, *Pygocentrus*, *Metynnis*, *Mylossoma*, or *Myloplus*).
5. Any species of Rasbora.
6. Any species of Puffer (*Tetraodontidae*).

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DIFFICULT SPECIES LIST (Cont'd)

- 7a. Any species of Whiptail Catfish (Loricaria).
- 7b. Any species of Bristlenose Catfish (Ancistrus).
8. Butterfly Fish (Pantodon buchholzi).
9. Any species of Leaf Fish (Monocirrhus, Polycentropsis, or Polycentrus).
10. Any species of Half-beak (Hemiramphidae).
11. Four-eye (Anableps tetraphthalmus).
12. Any species of Stickleback (Gasterosteidae).
13. Spotted Headstander (Chilodus punctatus).
14. Chocolate Gourami (Sphaerichthys osphromenoides).
15. Cichlasoma severum, Geophagus jurupari, Etroplus suratensis, Crenicara filamentosa.
16. Non-designated species. (A difficult species of the breeder's choice may be substituted for one of the above 15 categories. In order to qualify a species for this award, the breeder must submit a written request to the BAP Committee prior to the award of points. A complete explanation of the request is required.) This category may be used more than once to qualify for Master Breeder status.

TARGET SPECIES LIST

This list comprises species of fish whose spawnings have not been reliably reported by the home aquarist. At the present time, the list is as follows:

1. Any species of Labeo.
2. Any species of Loricariidae, except the Whiptail Catfish and Hemiancistrus (Bristlenose Plecostomus)
3. Any species of Loach.
4. Glass Catfish (Kryptopterus bicirrhus).
5. Any species of Scat (Scatophagus)
6. Any species of Headstander (Anostomidae), except Chilodus punctatus.
7. Any species of fish naturally found exclusively in salt water.
8. Any species of Hatchet Fish (Gasteropelecidae).
9. Any species of Glass Fish (Centropomidae)
10. Non-designated species. (A target species of the breeder's choice may be substituted for one of the above nine categories. In order to qualify a species for this award, the breeder must submit a written request to the BAP Committee prior to the award of points. A complete explanation of the request is required.) This category may be used more than once to qualify for Master Breeder or Grand Master Breeder status.

NOTES

1. The spawnings of Difficult or Target category fish will be used in the order of their recorded dates to satisfy the Master Breeder and Grand Master Breeder Award criterion. For example: A breeder who spawns one species from the Target categories and two species from the Difficult categories while attempting to satisfy the Master Breeder Award criteria cannot substitute another Difficult category species spawned after the designation as Master Breeder and then use the one Target species to satisfy the Grand Master Award criteria.
2. The albino form of the species shall be considered as a separate species and will be awarded points equivalent to its naturally-occurring color form. Albino forms are generally thought to present some additional difficulty with regard to sensitivity and raising of fry. Other than albino forms, points may be gained only once for each species and not for each color morph found within the species. For example: The color morphs of *Pseudotropheus zebra* are numerous, but are considered to be all of the same species and points will be awarded only once for the species. The same rule applies to killifish. For example: *Aphyosemion gardneri* has at least 18 color varieties, but points will be awarded only once for the species.
3. Highfin varieties are treated as being the same species as their naturally-occurring forms and, therefore, the species will be awarded points one time.
4. The three different categories into which killifish are divided in this program reflect the varying degrees of difficulty found in spawning these fish:

Category 6 (10 points) covers all plant spawners. They spawn readily in mops or in a planted tank and the eggs hatch in about two weeks. In general, the fry are not difficult to raise.

(Continued next page)

NOTES (Cont'd)

Category 7 (15 points) covers the African bottom-spawners. While are usually spawned over a peat or fine sand bottom, many of them will spawn on bottom mops. The usual method of hatching involves storing the eggs in peat moss for a period of several weeks or months during which time the eggs may be lost to fungus or bacteria. It is this additional step that gives the added point value to these fish.

Category 13 (25 points) covers the South American bottom-spawners: Cynolebias, Pterolebias, Austrofundulus, Rachovia, and Simpsonichthys. These are the true "ploughers" who completely bury themselves in the spawning medium (usually peat) before the eggs can be released. They have been found to be more difficult to maintain and to spawn than the African bottom-spawners and the fry are generally more difficult to raise.

(End of BAP Rules and Regulations)
(These rules became effective 1 January 1990)

BAP BOARD MEMBERS

John Jessup (Chair) (Manassas) 330-6257
Gerry Hoffman (Warrenton) 347-7486
John Mangan (Vienna) 938-4778
Gene Aldridge (Arlington) 998-8757
Tony Fitz (Montgomery County)
Rick McKay (ex-officio) (Vienna) (281-1647)

CHECKERS

Arlington County:	Gene Aldridge - 998-8757
Fairfax-Vienna:	Jim Long - 280-1753
Clifton-Centerville:	Kenny Warren - 378-8838
Warrenton:	Gerry Hoffman - 347-7486
Montgomery County:	Tony Fitz - 340-7876
Montgomery County:	Ray Hughes - 424-3531

N.B. If you cannot reach your nearest checker, please call your nearest BAP Committee Member or John Jessup at (703) 330-6257. An arrangement will be made to get someone to check your fish.

**BREEDER'S AWARD PROGRAM
STATUS**

Grand Master Breeder

John Jessup	595 (Provisional)
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Master Breeder

Garland Neese	1,115
Gerry Hoffman	895
Pat & Maggi Mahoney	785#
Darrell Holman	640#
Woody Griffin	610#

Advanced Breeder

Ruth Brewer	305#
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Intermediate Breeder

Roser Family	260#
Alex Cummins	205#
John Mangan	150
Kenneth Muller	270

Breeder

Frank Angilletta	140#
Nathan Mainwaring	100
Kenny Warren	90
Gene Aldridge	80
George White	60
Sharon Steele	50#
Amy Stirman	50#

Members Working For RAP Status

Raymond & Barry Farmer	30#
Tony Fitz	20**
Jason Hoffman	20
Howard Kresin	15
Pat Gore	10#
Ray Krause	10
Leslie Stirman	10#

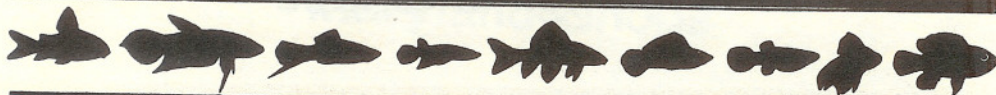
* - Awaiting Articles

** - Tony Fitz - Point Status

290 - Total
*(270 - Provisional)

- Member no longer active in PVAS

POTOMAC VALLEY AQUARIUM SOCIETY



POST OFFICE BOX 6219 SHIRLINGTON STATION ARLINGTON, VIRGINIA 22206

APPLICATION FOR MEMBERSHIP

DATE: _____ 19__

NAME: _____

STREET: _____

CITY: _____ STATE: _____ ZIP: _____

TELEPHONE: (HOME) _____ (OFFICE) _____

How long have you been in the hobby? _____

What parts of the hobby interest you? _____

What can PVAS do for you? _____

Have you ever belonged to another aquarium society? _____

If yes, which one(s)? _____

Individual annual dues for membership in the Potomac Valley Aquarium Society are \$12.00 per year, renewable each June.

Please hand this application to any PVAS member, or mail it to the address above. You will be contacted.

Virginia Shops

ANNANDALE PET SHOP

7406 Little River Turnpike
Annandale, VA 22031
256-2400

DISCOUNT PET CENTER

Manassas Shopping Center
9028 Mathis Avenue
Manassas, VA 22110
361-7769

BAILEY'S PET CENTER

Leesburg Pike Plaza
35217 South Jefferson Street
Falls Church, VA 22041
931-1400

BEACON MALL PET CENTER

Beacon Mall Center
6776 Richmond Highway
Alexandria, VA 22306
660-6100

NATIONAL PET AND AQUARIUM

Williston Shopping Center
6168 Arlington Blvd
Falls Church, VA 22046
533-7828

OAKTON PET SHOP

Oakton Center
Rt 123 & Hunter Mill Road
Oakton, VA 22124
281-9622

PET MART - TYSONS

8417 Old Courthouse Road
Vienna, VA 22180
281-8181

PETS, ETC - ALEXANDRIA

Mount Vernon Plaza
7688-B Richmond Highway
Alexandria, VA 22306
768-2200

PETS, ETC - CHANTILLY

Sully Plaza
13932 Lee-Jackson Highway
Chantilly, VA 22021
378-2777

PETS, ETC - HERNDON

Stuart Center
462 Eiden Street
Herdon, VA 22171
437-0381

PETS, ETC - STERLING

Hechinger Jamesway Plaza
243-C Harry Flood Byrd Hwy
Sterling, VA 22170
430-9667

PETS-N-THINGS

Pan American Center
3081 Nutley Street
Fairfax, VA 22031
573-4400

SUNSHINE PETS

7395-H Lee Highway
Falls Church, VA 22042
573-6946

WILSON'S PARROTS & MARINE LIFE

Shirley-Edsall Industrial Park
5605-G General Washington Dr
Alexandria, VA 22312
922-7358

These shops support our club -

Maryland Shops

ANIMAL EXCHANGE

765-A Rockville Pike
Rockville, MD 20852
424-PETS

AQUARIUM CENTER

Randlestown Plaza Center
Liberty Road at Offutt Road
Randlestown, MD
301-521-4529

CONGRESSIONAL AQUARIUM

Congressional Plaza
162 Congressional Lane
Rockville, MD 20852
881-6182

FISH FACTORY AQUARIUM

582 North Frederick Avenue
Gaithersburg, MD 20877
301-977-7500

GLENMONT TROPICALS

Glenmont Shopping Center
12345 Georgia Avenue
Wheaton, MD 20902
949-0344

MONTGOMERY TROPICALS

7845-G Airpark Road
Gaithersburg, MD 20879
301-670-0886

PETLAND

Briggs Chaney Plaza
13833 Outlet Drive
Silver Spring, MD 20904
890-0044

PETLAND

White Flint Plaza
5268 Nicholson Lane
Kensington, MD 20895
231-5216

PET MART - ROCKVILLE

2230 Veirs Mill Road
Rockville, MD 20851
762-3505

RICK'S FISH AND PET SUPPLY

36 South Market Street
Frederick, MD 21701
301-694-9664 301-831-6866

SHOWCASE AQUARIUM

11248-11250 Triangle Lane
Wheaton, MD 20902
942-6464

TROPICAL FISH WORLD, INC.

Walnut Hill Shopping Center
16529 South Frederick Avenue
Gaithersburg, MD 20877
301-921-0000

TROPICAL LAGOON

9439 Georgia Avenue
Silver Spring, MD 20910
585-6562

they deserve our support in return!

POTOMAC VALLEY AQUARIUM SOCIETY
P.O. Box 6219, Shirlington Station
Arlington, Virginia 22206-0219

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ARLINGTON, VA

THE POTOMAC VALLEY AQUARIUM SOCIETY WILL MEET ON THESE MONDAYS IN 1991:

14 JAN	8 APR	8 JUL	21 OCT
11 FEB	13 MAY	12 AUG	11 NOV
11 MAR	10 JUN	9 SEP	9 DEC

Meetings are held at the John J. Wood Facility, 3730 Old Lee Highway (Rt 237), Fairfax City, Virginia. Doors open at 7:30, and the meeting starts at 8PM.

ALL ARE WELCOME!

