

# \* DELTA TALE \*

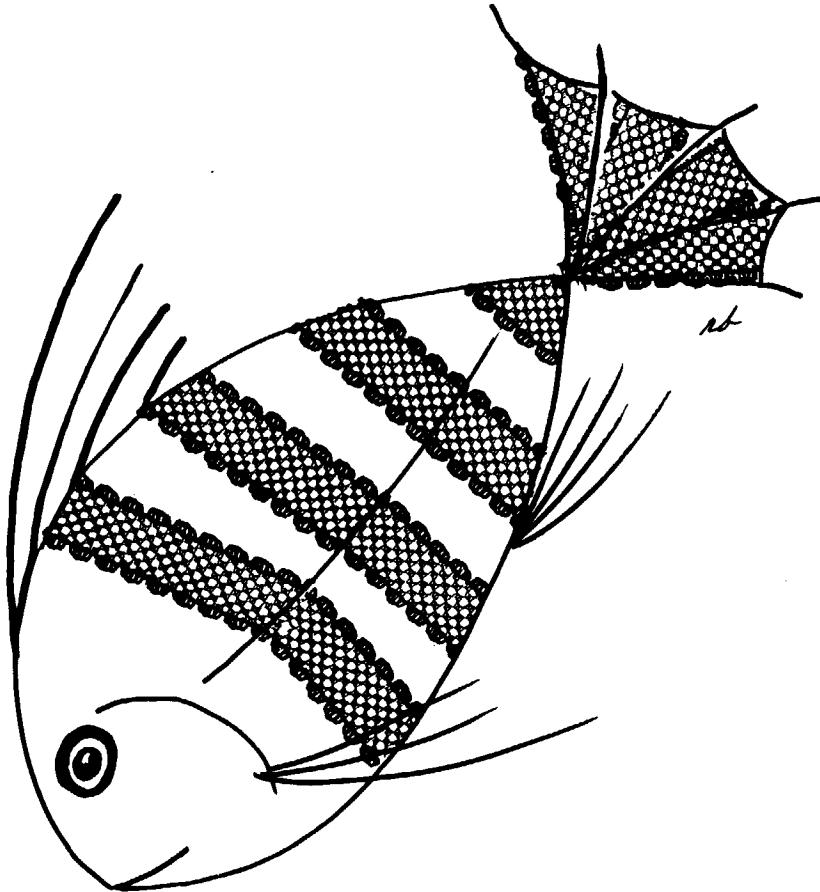
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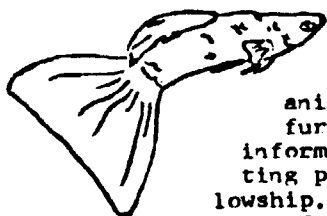
VOL. XII, Issue 3

**potomac valley aquarium society**

50¢



**Mini-Auction**  
**PVAS March Meeting**



Delta Tale is published for the benefit of the Potomac Valley Aquarium Society (formerly the Potomac Valley Guppy Club), a non-profit organization, established in 1960 for the purpose of furthering the aquarium hobby by dissemination of information, encouraging friendly competition, soliciting participation in its shows and promoting good fellowship. Correspondence should be addressed to: Secretary, P.V.A.S., P.O. Box 6219 Shirlington Station, Arlington,

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**DELTA TALE STAFF:** Editor, Maggi Mahoney  
Assistants: Carol Kaweck, Chrys Guiler  
Exchange Editors: Gil & Bonnie Baldwin

#### P.V.A.S. OFFICERS, 1981

President:	Woody Griffin 949-1290	Corres. Sec.:	Chryss Guiler, 864-1299
Vice-Pres.:	Pat Mahoney 534-0006	Rec. Sec.:	Maggi Mahoney 534-0006
Treasurer:	Ken Fisher 548-5911		

#### P.V.A.S. 1981 BOARD OF GOVERNORS

John Jessup, Nancy Griffin, Vince Edmondson, Kenny Warren

#### P.V.A.S. 1981 COMMITTEE HEADS

Auctions:	Pete Tietjen	Bowl Show:	Mark Prendergast
Breeders Award:	Gerry Hoffman	Programs:	Gerry Hoffman/ Ruth brewer
Library:	Nancy Griffin	Ways/Means:	Bill Trout/ Kenny Warren
Membership:	Kay Thompson		

MEMBERS OR NON-MEMBERS HAVING QUESTIONS ABOUT FISH, AQUARIUM KEEPING, BREEDING AND SO FORTH CAN CALL ONE OF THE OFFICERS ABOVE WHO WILL BE GLAD TO PUT YOU IN TOUCH WITH SOMEONE WHO CAN ANSWER YOUR QUESTIONS, IF THEY CAN'T THEMSELVES.

MINUTES OF THE BOARD OF GOVERNORS MEETING, FEB.2,1981

Meeting was held at Chry's Guilers' home with 11 members present and a guest, Wayne Hilburn, woody called the meeting to order at 8 pm.

A new editor for the Delta Tale discussed without much result. It was proposed that it could be done by a committee or on a rotating basis. Then any one person would only be responsible for 3 or 4 issues each year. We do not want the publication to stop.

It was decided that the Club should renew member ship in the organizations they now belong to, and join two more: The American Cat Fish and Loach Association and the National Federation of Aquarium Societies.

A treasurer's report and breakdown sheet were handed out by Ken Fisher. January balance is \$1501.36. A motion was made and unanimously carried that all (out of the usual) expenses are to be presented to the board and approved before being paid. Ken is also assuming another task, that of picking up the mail from our post office box.

Board guest, P.V.A.S member wayne Hilburn has several interesting ideas that we, as individuals and as a club, can do to help with the National Aquarium of D.C. It was decided he would present these ideas to the general membership at the February meeting. Many thanks, also, to Wayne for the new club letterhead. Wayne is a graphic designer.

We have been requested to, again, send our by-laws and club rules to help another club set-up. They are on their way to Pennsylvania.

John Jessup presented his full recommendations for the spring show. After an investigation of locations it was decided that the spring 1981 show would be held at the Jefferson Fire Station. His other recommendations were unanimously approved. John will call for a show committee meeting shortly.

Pete Tietjen, auction committee chairman, has the personelle and forms organized.

The meeting was adjourned at 9:44 pm.

Respectfully submitted,  
Nancy Griffin, acting sec.

Addendum: At the February general meeting a motion was made to authorize the 1981 show committee to spend what funds they deemed necessary for awards, judges and so forth. Motion passed by acclamation.

## MINI-AUCTION

The March meeting will include a mini-auction -- if there is any other program it will be a very short one.

This twice yearly small auction allows members to dispose of fry or fish and equipment they no longer want -- and to pick up some that they do, while helping the club treasury.

Every member may bring up to five (5) bags of fish or fish related items. Family membership, therefore, may bring 5 per family member.

Registration will be from 7:30 to 8:00. The auction itself will begin as soon as the short business meeting and bowl show is over. Gerry may have scheduled a short program as well.

General procedure is the same as at our big auctions. Bids will go up in increments of 50¢ until \$5 -- when we will switch to \$1 per raise -- at the discretion of the auctioneer. Minimum bids for beginning are \$1 - unless the seller sets a higher minimum.

As at the big auction, you will not be paid on the spot, but your 2/3 portion will be mailed to you within two weeks. The club will keep 1/3 of the selling price.

If you are selling, please hang around long enough to be sure your item does sell. The club cannot be responsible for unsold bags or items.

COME AND BRING FRIENDS -- selling and buying is not limited to P.V.A.S. members only.

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### SUMMER SAFARI

Wayne Hilburn would like to know if there are any other club members interested in a collecting safari to Wilde Virginia for native freshwater fish. He is interested in having a cold water tank with the elusive Johnny Darters, Mountain redbelly Dace and the Pigmy blue spotted Sunfish.

Brian Montague of the U.S. Fish & Wildlife Service/National Aquarium has offered outfitting assistance and Bob Jenkins of Roanoke College has expert knowledge of habitat and location.

If you're interested in planning a spring or summer trip, see Wayne at the March meeting or contact him at 243-3922 or 354-1463 in the evening.

## BRITLENOSE PLECOSTOMUS

Garland Neese, P.V.A.S.

I bought my ten Plecostomus fry at one of our auctions in 1978, primarily to put in my tanks to clean algae. To be honest, I hadn't given much thought to breeding them.

I put them in a 20-gallon tank with assorted Mbuna fry and never really paid much attention to them. As the tank usually housed fry it was fed heavily and often on a wide variety of food. Growth of the fish was rapid and steady. When I poked around the tank last winter, they were two to three inches long.

Darrell Holman was at my place helping me clean tanks and change water one evening and moved a cave in the tank and yelled, "Hey, Garland, look at all of these plecostomus babies!"

I ran over and couldn't believe my eyes. This spawning was like so many others of this species. A complete surprise!

The fry at this point were  $\frac{1}{4}$  to  $\frac{1}{2}$  inch long, so I had no reservations about moving them. The next evening I drew off 5 gallons of their own water and mixed it with 5 gallons of fresh, dechlorinated tap water of the same 75° temperature to set up a 10 gallon tank for my prizes. At this point I carefully netted 47 fry out and put them in their own tank.

I fed them heavily on flake food, scraped algae and lettuce. I found my fry about the time I read an article that wood is an essential part of their diet, so I put a small piece of driftwood in their tank and they nibbled on it constantly. I really think the combination of the wood and lettuce improved their growth rate tremendously.

With weekly partial water changes and this diet, at 60 days I still had 47 fry, all 1 to 1½ inches long.

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### REVIEWS: LOTS OF THEM:

Tank Topics, Feb. '81 mentioned Gene Aldridge's "Cichlid Notebook" and John Mangan's "Unthought of Livebearers."

Tropical Topics, Feb. '81 reviewed our November and December issues, mentioning Vince Edmondson's Brichardi article, Pat Mahoney's on Ap steindachneri and Gene's Notebook again. From Dec. Ron Thompson's Krib article and John's "Unthought of Livebearers".

Kitsap Aquarian mentioned Darrell's Synodontus article, while Wet Tales reprinted it.

Ashco Skimmer reviewed Ken Reeces/ "Keeping the bubble-up down".

Tank Topics in Dec. mentions Pat Mahoney's P.taeniatus report.

## SPAWNING THE ALBINO CORYDORAS,

Darrell Holman, P.V.A.S.

In the past, there has been a lot of articles written about spawning the Albino Cory. There are many different techniques in spawning and in raising the fry. But I have developed my own technique and use it on most species of Corydoras.

All of my spawners are conditioned in 10 gallon tanks, where they get several feedings a day of flake food, tubeflex and brine shrimp. I condition the breeders for at least 4 weeks before any attempt to spawn them. When they are ready, the females are very swollen with eggs and the males are sleeker, but still plump.

The spawning tanks are set up about a week before introducing the breeders. I use no chlorout in the water or any other special chemicals. The pH is not really important. I keep it at 7.0 or slightly alkaline. I spawn all of my Corydoras in 2-1/2 gallon tanks, using no gravel or plants -- just a small box filter. My reason for using such a small tank is that it is easier to keep clean and the newly hatched fry can find food more easily.

After the breeders are introduced to the tanks, they are not fed. I usually do a water change the next day. The water change almost always stimulates the breeders into spawning. Most often on the third day. After spawning, the breeders are removed and the eggs left alone. At the end of the second day, I do a partial water change. This is done to keep the water clean for the fry. The fry usually hatch on the third day. They are left in the tank for one week where they get fed Kordon baby flake and newly hatched brine shrimp. At the end of the week they are moved into two 5-1/2 gallon tanks, splitting the spawn in half. This gives them room to grow.

When they are about three weeks old they are fed microplankton, which seems to give them fast growth. At 60 days, they are about one inch long and ready to sell.

## LIFE CYCLE OF THE EEL (*Anguilla rostrata*)

John Mangan, P.V.A.S.

In a previous article (Ichthyology Made Easy, Part 4B) I used the eel as an example of a catadromous fish. I also mentioned that the eel has a very unusual life cycle and promised to describe it in a future article. Well, here it is.

The eel begins life in a tiny egg of about 1mm in diameter in the waters off Bermuda. The egg then hatches into what is known as a *Leptocephalus* larvae. It is called this because the larvae is so different in appearance from the adult eel that it was originally thought to be a completely different animal and was put in the genus *Leptocephalus*. It remained in this genus until 1895 which was about 40 years after it was first described. In that year Grassi and Calandruccio realized that it was actually the larval form of the eel.

The larva are transparent and ribbonlike. They are mostly planktonic but are able to swim, if they have to. The larva drifts in the Gulf stream, which carries it into U.S. waters. While drifting, the larva undergoes a metamorphosis. It loses length and depth, but gains width until the adult shape is attained. This involves going from about 90 mm in length down to about 55 mm.

The young eels are still unpigmented and are referred to as glass eels. These reach the coast of the United States in winter (January to March in the Chesapeake Bay, and as late as April in the Gulf of Maine.)

By April or May, the glass eels have obtained much of their pigment and are now referred to as elvers. The elvers have huge appetites, but despite this, grow very slowly. At 5 to 8 years of age the eels are between 6 and 12 inches in length but most of them are still immature and hermaphroditic. Sexual differentiation begins to take place by one sex regressing as the other develops. Male eels tend to remain in estuaries and the lower parts of rivers, while females are generally found upstream and in headwaters.

The eel becomes sexually mature at between 5 and 20 years of age and about 2 feet in length. (Females being larger than males generally.) As the eel approaches maturity, it ceases to feed and its color changes. The sides become silvery and the back dark. This is known as the silver eel phase (previous to this is referred to as the yellow eel phase.)

The eel now begins to migrate towards the ocean. It goes out to sea in late summer or autumn and heads towards the spawning grounds off Bermuda.

Spawning individuals or even freshly laid eggs have never been found. Not a single mature adult has ever been caught in the Sargasso Sea. It is assumed the adult eels die after spawning, since they vanish without a trace.

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#### REVIEWS CONT'D

Tropical Topics, Dec. 1980 Reviewed Woody's *Geophagus Australis* article.

Youngstown Aquarist, Dec. 1980 mentioned Pat Mahoney's "*Corydoras Elegans*" article.

## BREEDERS AWARD PROGRAM: THE FIRST SIX YEARS

By: Ruth Brewer, PVAS

The PVAS Breeders Award Program (BAP) was initiated in April, 1975, to give recognition to members who are spawning their fish and to encourage others to take part in this aspect of the hobby. The BAP Committee permitted those members who had spawns less than 60 days old at the inception of the program to file for points, thus the first spawns registered are for February, 1975. Table I shows yearly totals of the number of breeders, the number of different categories and the number of spawns for the six years.

Table II details the 333 spawns reported for the period February, 1975, through December, 1980. Some of the spawns shown have not yet been credited to the breeders since the requirement for an article or an oral report has not been met, but the spawns are listed here "unofficially" for the benefit of those who would like specific information on a particular fish that has been bred by a fellow member. The dates given are, for the most part, the date of the spawn, not the date of recording. While some of the breeders shown are no longer in the club, their spawning reports are in the BAP Committee files for reference. I understand that another PVAS member is preparing a listing of all the BAP articles for a future issue of the Delta Tail. These articles provide valuable additional information on the techniques that have been successful for us.

A total of 21 different members had participated in the BAP at the end of 1980 and of these three had achieved Breeder Award status, seven the Intermediate Breeder status, six the Advanced Breeder status and one had Master Breeder status.

The most popular category of fish in the BAP has been the Mouthbrooders which account for 123 of the 333 spawns reported. We have had 41 spawns of Livebearers, 27 of Plant Spawning Killies, 26 of Dwarf Cichlids, 21 of Endemic Rift-lake Cichlids, 16 of other (10-point) Cichlids, 14 Catfish, 10 Bottom Spawning Killies (this figure includes both Africans and South Americans which have now been split into separate categories), 10 of White Clouds, Danios, or Rainbows, 10 Anabantoids (including 4 Bettas), 6 Angels, 5 Geophagus, 4 Barbs, and 2 Badis badis. No spawns were reported for Goldfish and Koi, Oscars or Characins.

Nine spawns have been reported in the Difficult category (2 each of Discus, Whiptail Cats, Red Devils and Severum, and 1 of Halfbeaks). Red Devils are reported here under "Difficult" even though this fish was changed to Category 11 at 20 points in June, 1980. There have also been nine reported spawnings in the Target category (1 of Coolie Loaches and 8 of the Bristle Nose Plecostomus of various Ancistrus species). Bristle Nose Plecostomus are reported here as "Target" although they have now been moved to Category 12 at 20 points. Note that a reclassification to a lower-point category is never retroactive, while reclassification to a higher-point category is retroactive, provided any other requirement for higher points is met.



TABLE I

The following table shows the variation in population of categories over the first six years of the BAP:

<u>Year</u>	<u>No. of Breeders</u>	<u>Different Categories</u>	<u>No. of Spawns</u>	<u>Notes</u>
1975	8	14	65	17 spawns were Livebearers, 11 were Rift Lake Substrate, and 8 were Mouthbrooders. The other categories had from 1 to 4 spawns each. 1 Difficult spawn (Red Devil*) and 1 Target spawn (Ancistrus*) were reported.
1976	6	13	31	Mouthbrooders accounted for 6 spawns. No other category had more than 3 spawns. There were 2 Difficult spawns (Halfbeak and Severum).
1977	7	12	41	There were 9 spawns each of Dwarf Cichlids and Mouthbrooders, the other categories having from 1 to 5 spawns in each. No Difficult or Target spawns were reported.
1978	9	17	67	There were 21 spawns of Mouthbrooders, 13 of Killies, and 9 of Dwarf Cichlids. The other categories had from 1 to 3 spawns each. 4 Difficult spawns (1 each of Severum and Discus and 2 of Loricariidae) and 1 Target spawn (Ancistrus*) were reported.
1979	8	10	66	Mouthbrooders accounted for 50 of the spawns; no other category had more than 4. There were 2 Difficult spawns (Discus and Red Devil*) and 1 Target spawn (Ancistrus*).
1980	9	13	63	Mouthbrooders again took the lead with 29 spawns, the closest runner-up being Livebearers with 10. No Difficult spawns were reported, but there were 3 Target spawns (1 of Loaches and 2 of Ancistrus*).

\* Red Devils and the Bristle Nose Plecostomus (Ancistrus sp.) have been reclassified since the above spawning reports were filed.

TABLE II -- 333 Spawns During the Period Feb. 1975 through Dec. 1980

SCIENTIFIC NAME	COMMON NAME	CATEGORY	BREEDER	DATE
Acanthopthalmus kuhli kuhli	Coolie Loach	Target-Loaches	Holman	04/80
Aequidens curviceps		Dwarf Cichlid	Neese	05/80
Ameca splendens	Butterfly Goodsid	Livebearer	Brewer	12/76
Ancistrus dolichopterus	Bristle Nose Pleco	Target-Plecostomus	McInturff	02/76
Ancistrus dolichocheilus	Bristle Nose Pleco	Target-Plecostomus	Neese	03/80
Ancistrus lineolatus	Bristle Nose Pleco	Target-Plecostomus	Pauli	11/78
Ancistrus lineolatus? lineatus?	Bristle Nose Pleco	Target-Plecostomus	Hoffman	12/79
Ancistrus sp.	Bristle Nose Pleco	Target-Plecostomus	Aldridge	05/75
Ancistrus sp.	Bristle Nose Pleco	Target-Plecostomus	Griffin	09/80
Ancistrus sp.	Bristle Nose Pleco	Target-Plecostomus	McInturff	09/76
Ancistrus sp.	Bristle Nose Pleco	Target-Plecostomus	Walsh	08/76
Aphyosemion amieti		Bottom Spawning Killifish	Pauli	06/78
Aphyosemion australe		Killifish	Pauli	05/78
Aphyosemion australe australe	Chocolate australe	Killifish	Hoffman	07/78
Aphyosemion bivittatum		Killifish	Brewer	06/75
Aphyosemion bivittatum		Killifish	Donnelly	09/75
Aphyosemion gabunense		Killifish	Pauli	08/78
Aphyosemion gabunense		Killifish	Hoffman	06/78
Aphyosemion gardneri		Killifish	Pauli	02/75
Aphyosemion gardneri		Killifish	Brewer	06/78
Aphyosemion gardneri		Killifish	Pauli	02/75
Aphyosemion gardneri makurdi		Killifish	McInturff	05/76
Aphyosemion mamoratum		Killifish	Sprague	08/75
Aphyosemion sheeli		Killifish	Pauli	03/78
Aphyosemion sjoestedti		Killifish	Pauli	10/78
Aphyosemion sjoestedti	Blue Gularis	Bottom Spawning Killifish	McInturff	12/75
Aphyosemion striatum	Dwarf Red Gularis	Bottom Spawning Killifish	Pauli	10/77
Aphyosemion striatum striatum		Bottom Spawning Killifish	Pauli	08/78
Aphyosemion waikeri		Killifish	Hoffman	10/78
Aphyosemion waikeri		Bottom Spawning Killifish	Brewer	10/76
Aphyosemion waikeri		Bottom Spawning Killifish	Pauli	01/78
Apistogramma agassizi	Aggie	Dwarf Cichlid	Hoffman	10/77
Apistogramma agassizi	Aggie	Dwarf Cichlid	Pauli	10/77
Apistogramma amoenum?	"Uglius"	Dwarf Cichlid	Pauli	11/77
Apistogramma cacatuoides	Cockatoo Dwarf Cichlid	Dwarf Cichlid	Hoffman	03/77
Apistogramma cacatuoides	Cockatoo Dwarf Cichlid	Dwarf Cichlid	Pauli	06/77
Apistogramma kleei		Dwarf Cichlid	Pauli	05/78
Apistogramma pertense?	Yellow Apisto	Dwarf Cichlid	Pauli	11/77
Apistogramma reitzigi		Dwarf Cichlid	Pauli	12/77
Apistogramma sp.	Red & Blue Apisto	Dwarf Cichlid	Hoffman	05/78
Apistogramma sp.	Red & Brown Apisto	Dwarf Cichlid	Hoffman	05/78
Apistogramma steindachneri		Dwarf Cichlid	Mahoney	11/80
Aplocheilichthys meyburtgi		Killifish	Pauli	10/78
Autonocara nyassae	Emperor Peacock	Mouthbrooder	Griffin	09/79
Autonocara nyassae	Peacock	Mouthbrooder	McInturff	01/77
Autonocara nyassae	Peacock	Mouthbrooder	Neese	12/78
Autonocara nyassae	Regal Peacock	Mouthbrooder	Warren	05/78
Autonocara nyassae-A	Yellow Peacock-atypical	Mouthbrooder	Neese	03/80

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>CATEGORY</u>	<u>BREEDER</u>	<u>DATE</u>
Badis badis		Badis badis	Fazil	09/78
Badis badis		Badis badis	Pauli	10/77
Redotia geayi	Madagascar Rainbow	Danios, Rainbows, etc.	Pauli	11/78
Betta splendens		Betta	Brewer	09/75
Betta splendens		Betta	Hofman	01/80
Betta splendens		Betta	Lilley	07/75
Betta splendens		Betta	Mahoney	08/77
Brachydanio rerio	Veil-Tail Zebra Danio	Danios, Rainbows, etc.	Hoffman	09/80
Brachydanio rerio	Zebra Danio	Danios, Rainbows, etc.	Fazil	09/78
Brachydanio rerio	Zebra Danio	Danios, Rainbows, etc.	Nixon	08/75
Capoeta tilteya	Cherry Barb	Barbs	Fazil	09/78
Chilotilapia rhodesii		Mouthbrooder	Reece	02/80
Chromidotilapia guentheri		Mouthbrooder	Jessup	08/75
Chromidotilapia guentheri		Mouthbrooder	Pauli	07/77
Cichlasoma citrinellum	Red Devil	Difficult-Red Devil	Jessup	07/75
Cichlasoma citrinellum	Red Devil	Difficult-Red Devil	Reese	11/79
Cichlasoma managuense	Firemouth	Cichlid	Warren	06/78
Cichlasoma nigrofasciatum	Pink Convict	Cichlid	Griffin	03/79
Cichlasoma nigrofasciatum	Pink Convict	Cichlid	Fazil	08/77
Cichlasoma septemfasciatum	Banded Severum	Cichlid	McInturff	02/76
Cichlasoma severum	Gold Severum	Difficult-Severum	Griffin	10/80
Cichlasoma severum	Gold Severum	Difficult-Severum	Warren	03/78
Cichlasoma synspillum		Difficult-Severum	Walsh	08/76
Cichlasoma synspillum		Cichlid	Jessup	12/75
Cotilisa fasciata	Giant Gourami	Anabantoid	Lilley	05/75
Corydoras aeneus	Bronze Cory	Catfish	Hoffman	04/77
Corydoras aeneus	Bronze Cory	Catfish	Walsh	08/76
Corydoras elegans		Catfish	Mahoney	06/80
Corydoras hastatus	Dwarf Cory	Catfish	Pauli	04/78
Corydoras metae	Bandit Cory	Catfish	Hoffman	05/77
Corydoras paleatus	Peppered Cory	Catfish	Pauli	08/77
Corydoras sp. (albino)	Albino Cory	Catfish	Pauli	12/75
Corydoras sp. (albino)	Albino Cory	Catfish	Brewer	05/80
Corydoras sp. (albino)	Albino Cory	Catfish	Griffin	06/77
Corydoras sp. (albino)	Albino Cory	Catfish	Hoffman	03/80
Corydoras sp. (albino)	Albino Cory	Catfish	Lilley	11/75
Corydoras sp. (albino)	Albino Cory	Catfish	Mahoney	12/78
Corydoras sp. (albino)	Albino Cory	Catfish	McInturff	07/76
Corydoras sp. (albino)	Albino Cory	Catfish	Walsh	08/76
Cynolebias nigripinnis		Bottom Spawning Killifish	Brewer	07/75
Dermogenys pusillus	Halfbeak	Difficult-Halfbeak	Brewer	07/76
Ipiplatys dageti		Killifish	Brewer	07/75
Ipiplatys dageti		Killifish	Mahoney	07/77
Ipiplatys dageti	"Heinzi"	Killifish	McInturff	01/76
Ipiplatys lamottei		Killifish	Pauli	09/77
Etroplus maculatus	Orange Chromide	Cichlid	Jessup	06/75

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>CATEGORY</u>	<u>BREEDER</u>	<u>DATE</u>
<i>fundulus heteroclitus</i>	Mummichog	Killifish	Brewer	07/78
<i>Gambusia affinis</i>	Mosquito Fish	Livebearer	Brewer	08/77
<i>Geophagus australis gymnoge</i>	Red Top	Geophagus	Griffin	02/80
<i>Geophagus brasiliensis</i>	Red Top	Geophagus	Sprague	04/75
<i>Geophagus pellegrini</i>	Red Top	Geophagus	Holman	10/80
<i>Geophagus pellegrini</i>	Red Top	Geophagus	Jessup	09/75
<i>Geophagus pellegrini</i>	Red Top	Geophagus	Nixon	06/76
<i>Haplochromis acuticeps</i>		Mouthbrooder	Jessup	07/75
<i>Haplochromis bilineatus</i>		Edmondson	Edmondson	03/80
<i>Haplochromis brownae</i>		Holman	Holman	01/80
<i>Haplochromis brownae</i>		Mouthbrooder	Neese	03/80
<i>Haplochromis brownae</i>		Mouthbrooder	Reece	08/79
<i>Haplochromis burtoni</i>		Mouthbrooder	Edmondson	11/80
<i>Haplochromis burtoni</i>		Mouthbrooder	Holman	01/80
<i>Haplochromis burtoni</i>		Mouthbrooder	Reece	08/79
<i>Haplochromis burtoni</i>		Rift Lake Substrate	McInturff	01/76
<i>Haplochromis burtoni</i>		Mouthbrooder	Nixon	03/76
<i>Haplochromis compressiceps</i>		Rift Lake Substrate	Sprague	02/75
<i>Haplochromis electra</i>		Mouthbrooder	Edmondson	11/80
<i>Haplochromis fleurospilus</i>		Mouthbrooder	Reece	02/80
<i>Haplochromis formosus</i>		Mouthbrooder	Pauli	07/77
<i>Haplochromis kirki</i>		Mouthbrooder	Edmondson	03/80
<i>Haplochromis kiwingi</i>		Mouthbrooder	Reece	03/80
<i>Haplochromis labrosus</i>		Mouthbrooder	Reece	06/79
<i>Haplochromis moorii</i>		Mouthbrooder	Holman	01/80
<i>Haplochromis moorii</i>		Mouthbrooder	McInturff	09/78
<i>Haplochromis moorii</i>		Mouthbrooder	Neese	05/79
<i>Haplochromis moorii</i>		Mouthbrooder	Reece	07/79
<i>Haplochromis moorii</i>		Mouthbrooder	Neese	08/79
<i>Haplochromis sp.</i>		Mouthbrooder	Warren	06/78
<i>Haplochromis sp.</i>		Mouthbrooder	Neese	09/80
<i>Haplochromis stapei</i>		Mouthbrooder	Jessup	05/75
<i>Haplochromis venustus</i>		Edmondson	Edmondson	11/80
<i>Haplochromis venustus</i>		Mouthbrooder	Griffin	10/79
<i>Haplochromis venustus</i>		Mouthbrooder	Neese	01/80
<i>Haplochromis venustus</i>		Mouthbrooder	Warren	03/78
<i>Hemichromis bimaculatus</i>	Jewel	Cichlid	Mahoney	12/78
<i>Hemichromis bimaculatus</i>	Jewel	Cichlid	Sprague	05/75
<i>Hemichromis bimaculatus</i>	Phase II Jewel	Cichlid	Brewer	02/76
<i>Hemichromis bimaculatus</i>	Phase II Jewel	Cichlid	Griffin	04/79
<i>Hemichromis bimaculatus</i>	Phase II Jewel	Cichlid	Jessup	06/75
<i>Hemichromis bimaculatus</i>	Phase II Jewel	Cichlid	Neese	08/79
<i>Hemichromis fasciatus "R"</i>	5-spot Cichlid	Cichlid	Jessup	08/75
<i>Herotilapia multispinosa</i>	Rainbow Cichlid	Cichlid	Fazil	03/78
<i>Herotilapia multispinosa</i>	Rainbow Cichlid	Cichlid	Neese	11/79
<i>Heterandria formosa</i>	Mosquito Fish	Livebearer	Brewer	11/75
<i>Heterandria formosa</i>	Mosquito Fish	Livebearer	McInturff	06/76
<i>Heterandria formosa</i>	Mosquito Fish	Livebearer	Mahoney	11/80
<i>Iodotropheus sprengerae</i>	Rusty Cichlid	Mouthbrooder	Hoffman	01/77
<i>Iodotropheus sprengerae</i>	Rusty Cichlid	Mouthbrooder	McInturff	02/76
<i>Iodotropheus sprengerae</i>	Rusty Cichlid	Mouthbrooder	Reece	06/79

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>CATEGORY</u>	<u>BREEDER</u>	<u>DATE</u>
<i>Julidochromis marlieri</i>		Rift Lake Substrate	Edmondson	04/79
<i>Julidochromis marlieri</i>		Rift Lake Substrate	Sprague	07/75
<i>Julidochromis regani</i>		Rift Lake Substrate	Warren	05/78
<i>Labotropheus fuefueborni</i>	Atypical	Mouthbrooder	Neese	11/79
<i>Labotropheus fuefueborni</i>	Red Top Blue	Mouthbrooder	Neese	03/80
<i>Labotropheus trewavasae</i>		Mouthbrooder	McInturff	06/77
<i>Labotropheus trewavasae</i>		Mouthbrooder	Reece	08/79
<i>Labotropheus trewavasae</i>	Gold	Mouthbrooder	Mahoney	07/79
<i>Labotropheus trewavasae</i>	Gold	Mouthbrooder	Neese	05/79
<i>Labotropheus trewavasae</i>	Red Top	Mouthbrooder	Griffin	12/79
<i>Labotropheus trewavasae</i>	Red Top	Mouthbrooder	Warren	06/78
<i>Labidochromis freibergi</i>		Mouthbrooder	Aldridge	08/75
<i>Labidochromis sp.</i>	Clown Labidochromis	Mouthbrooder	Griffin	03/80
<i>Lamplogus brichardi</i>		Rift Lake Substrate	Edmondson	01/80
<i>Lamplogus brichardi</i>		Rift Lake Substrate	Mahoney	12/78
<i>Lamplogus brichardi</i>		Rift Lake Substrate	Paul	11/77
<i>Lamplogus brichardi</i>		Rift Lake Substrate	Sprague	12/75
<i>Lamplogus brichardi</i>		Rift Lake Substrate	Griffin	11/80
<i>Lamplogus brichardi</i>		Rift Lake Substrate	Neese	11/80
<i>Lamplogus tetracanthus</i>		Rift Lake Substrate	Jessup	12/75
<i>Lamplogus tetracanthus</i>		Rift Lake Substrate	Sprague	09/75
<i>Loricaria parva?</i>	Whiptail Cat	Difficult-Loricariidae	Hoffman	11/78
<i>Loricaria parva?</i>	Whiptail Cat	Difficult-Loricariidae	Paul	05/78
<i>Macropodus opercularis</i>	Paradise Fish	Anabantoid	Fazil	08/77
<i>Melanochromis auratus</i>		Mouthbrooder	Fazil	01/79
<i>Melanochromis auratus</i>		Mouthbrooder	Griffin	06/78
<i>Melanochromis auratus</i>		Mouthbrooder	Neese	12/78
<i>Melanochromis auratus</i>		Mouthbrooder	Reece	05/79
<i>Melanochromis auratus</i>		Mouthbrooder	Sprague	03/77
<i>Melanochromis chipoke</i>		Mouthbrooder	Holman	12/79
<i>Melanochromis chipoke</i>		Mouthbrooder	Mahoney	03/80
<i>Melanochromis chipoke</i>		Mouthbrooder	Neese	06/79
<i>Melanochromis chipoke</i>		Mouthbrooder	Neese	06/79
<i>Melanochromis exasperatus</i>		Mouthbrooder	Edmondson	06/79
<i>Melanochromis johanni</i>		Mouthbrooder	Griffin	07/78
<i>Melanochromis johanni</i>		Mouthbrooder	Mahoney	07/78
<i>Melanochromis johanni</i>		Mouthbrooder	McInturff	06/79
<i>Melanochromis johanni</i>		Mouthbrooder	Neese	06/79
<i>Melanochromis johanni</i>		Mouthbrooder	Reece	05/79
<i>Melanochromis johanni</i>		Mouthbrooder	Neese	10/79
<i>Melanotaenia nigrans</i>	Australian Rainbow	Danio, Rainbows, etc.	Griffin	08/79
<i>Melanotaenia nigrans</i>	Australian Rainbow	Danio, Rainbows, etc.	Hoffman	10/80
<i>Melanotaenia nigrans</i>	Australian Rainbow	Danio, Rainbows, etc.	Mahoney	12/78
<i>Melanotaenia nigrans</i>	Australian Rainbow	Danio, Rainbows, etc.	Neese	05/79
<i>Mollienesia latipinna</i>	Black Sailfin Mollie	Livebearer	Mahoney	11/80
<i>Mollienesia latipinna</i>	Gold Sailfin Mollie	Livebearer	Lilley	06/75
<i>Mollienesia latipinna</i>	Lyretail Black Mollie	Livebearer	Holman	10/80
<i>Mollienesia sphenops</i>	Black Mollie	Livebearer	Fazil	09/77
<i>Mollienesia sphenops</i>	Black Mollie	Livebearer	Nixon	12/75
<i>Nannacara anomala</i>	Golden Eye Cichlid	Dwarf Cichlid	Hoffman	07/77
<i>Nannacara anomala</i>	Golden Eye Cichlid	Dwarf Cichlid	McInturff	04/76

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>CATEGORY</u>	<u>BREEDER</u>	<u>DATE</u>
Nannochromis nudiiceps		Dwarf Cichlid	Pauli	05/78
Nothobranchius guentheri		Bottom Spawning Killifish	Pauli	07/78
Nothobranchius korthausae		Bottom Spawning Killifish	Brewer	08/77
Nothobranchius korthausae		Bottom Spawning Killifish	Pauli	07/77
Oryzias latipes	Japanese Rice Fish, Medaka	Killifish	Brewer	01/76
Pachypanchax playfairi		Killifish	Brewer	06/77
Pelvicachromis (cf. pulcher)	Giant Krib	Dwarf Cichlid	Pauli	02/78
Pelvicachromis pulcher	Kribensis	Dwarf Cichlid	Fazil	10/78
Pelvicachromis pulcher	Kribensis	Dwarf Cichlid	Griffin	06/80
Pelvicachromis pulcher	Kribensis	Dwarf Cichlid	Hoffman	08/77
Pelvicachromis pulcher	Kribensis	Dwarf Cichlid	Holman	01/80
Pelvicachromis pulcher	Kribensis	Dwarf Cichlid	Mahoney	03/78
Pelvicachromis pulcher	Kribensis	Dwarf Cichlid	McInturff	04/76
Pelvicachromis pulcher	Kribensis	Dwarf Cichlid	Thompson	11/80
Pelvicachromis taeniatus	Kribensis	Dwarf Cichlid	Hoffman	05/78
Pelvicachromis taeniatus	Kribensis	Dwarf Cichlid	Mahoney	06/80
Pelvicachromis taeniatus	Kribensis	Dwarf Cichlid	Pauli	09/78
Petrotilapia tridentiger		Mouthbrooder	Neese	10/79
Phallichthys amates	Merry Widow	Livebearer	Sprague	12/75
Poecilia reticulata	Guppy	Livebearer	Fazil	09/77
Poecilia reticulata	Guppy	Livebearer	Mahoney	06/78
Poecilia reticulata	Guppy	Livebearer	McInturff	07/75
Poecilia reticulata	Guppy	Livebearer	Neese	05/79
Poecilia reticulata	Guppy, Blue Snakeskin	Livebearer	Nixon	08/75
Poecilia reticulata	Guppy, Blue-Black	Livebearer	Lilley	06/75
Poecilia reticulata	Guppy, Delta Tail	Livebearer	Lilley	05/75
Poecilia reticulata	Guppy, Green Delta Tail	Livebearer	Lilley	09/75
Poecilia reticulata	Guppy, Half Black Red	Livebearer	Jessup	12/75
Poecilia reticulata	Guppy, Red Tail	Livebearer	Sprague	08/75
Poecilia reticulata	Guppy, Red Tail	Livebearer	Griffin	09/79
Procatopus tafia?		Killifish	Pauli	08/78
Pseudepiplatys annulatus	Clown Killie	Killifish	Brewer	06/77
Pseudepiplatys annulatus	Clown Killie	Killifish	Pauli	07/77

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>CATEGORY</u>	<u>BREEDER</u>	<u>DATE</u>
Pseudotropheus auratus	Round Nose Auratus	Mouthbrooder	Jessup	04/75
Pseudotropheus auratus	Round Nose Auratus	Mouthbrooder	Lilley	09/75
Pseudotropheus aurora		Mouthbrooder	Mahoney	11/78
Pseudotropheus aurora		Mouthbrooder	Neese	12/78
Pseudotropheus aurora		Mouthbrooder	Edmondson	01/79
Pseudotropheus edwardi	Sunrise mbuna	Mouthbrooder	Reese	04/79
Pseudotropheus elongatus		Mouthbrooder	Mahoney	05/80
Pseudotropheus elongatus		Mouthbrooder	Reese	08/79
Pseudotropheus elongatus	Dingani	Mouthbrooder	Fazil	01/78
Pseudotropheus elongatus	Likoma Island elongatus	Mouthbrooder	Holman	12/79
Pseudotropheus elongatus	Likoma Island elongatus	Mouthbrooder	Edmondson	02/80
Pseudotropheus fuscoides		Mouthbrooder	Neese	12/78
Pseudotropheus kenyi		Mouthbrooder	Reese	01/79
Pseudotropheus kingielei		Mouthbrooder	Neese	11/79
Pseudotropheus kingielei		Mouthbrooder	Edmondson	02/79
Pseudotropheus livingstoni		Mouthbrooder	McInturff	03/77
Pseudotropheus livingstoni		Mouthbrooder	Neese	12/78
Pseudotropheus livingstoni		Mouthbrooder	Reese	07/79
Pseudotropheus lombardoi		Mouthbrooder	Edmondson	09/79
Pseudotropheus lucerna		Rift Lake Substrate	Jessup	11/75
Pseudotropheus lucerna		Mouthbrooder	Mahoney	11/80
Pseudotropheus lucerna		Mouthbrooder	Neese	01/79
Pseudotropheus macrophthalmus		Mouthbrooder	Edmondson	11/80
Pseudotropheus macrophthalmus	Orange Shoulder Macrophthalmus	Rift Lake Substrate	Aldridge	08/75
Pseudotropheus macrophthalmus		Mouthbrooder	Griffin	09/80
Pseudotropheus macrophthalmus		Mouthbrooder	Mahoney	10/80
Pseudotropheus minutis		Mouthbrooder	Mahoney	01/80
Pseudotropheus ornatus	Bumblebee	Mouthbrooder	Warren	03/78
Pseudotropheus ornatus	Bumblebee	Mouthbrooder	Edmondson	11/79
Pseudotropheus ornatus	Bumblebee II	Mouthbrooder	McInturff	11/79
Pseudotropheus sociofii		Rift Lake Substrate	Tietjen	01/76
Pseudotropheus sociofii		Rift Lake Substrate	Sprague	05/75
Pseudotropheus sociofii	Powder Blue	Rift Lake Substrate	McInturff	11/77
Pseudotropheus sp.	Dingani	Mouthbrooder	Neese	11/79
Pseudotropheus tropheops		Mouthbrooder	Fazil	06/79
Pseudotropheus tropheops		Mouthbrooder	Neese	12/78
Pseudotropheus tropheops		Mouthbrooder	Reese	04/79
Pseudotropheus tropheops		Mouthbrooder	Warren	06/78
Pseudotropheus williamsi		Mouthbrooder	Edmondson	07/79
Pseudotropheus williamsi		Mouthbrooder	Neese	09/80
Pseudotropheus zebra	Blue Black Zebra	Mouthbrooder	Griffin	10/79
Pseudotropheus zebra	Cobalt Zebra	Mouthbrooder	Holman	11/79
Pseudotropheus zebra	Lemon Zebra	Mouthbrooder	Holman	12/79
Pseudotropheus zebra	O/B Zebra	Mouthbrooder	Neese	02/80
Pseudotropheus zebra	Peach Zebra	Mouthbrooder	Neese	11/79
Pseudotropheus zebra	Powder Blue Zebra	Mouthbrooder	Mahoney	08/79
Pseudotropheus zebra	Powder Blue Zebra	Mouthbrooder	Neese	11/78
Pseudotropheus zebra	Red Mottled Zebra	Mouthbrooder	Warren	05/78
Pseudotropheus zebra	Red Top Blue/Black Zebra	Mouthbrooder	Mahoney	10/79
Pseudotropheus zebra	Red Top Blue/Black Zebra	Mouthbrooder	Neese	11/79
Pseudotropheus zebra	Red Top Cobalt Zebra	Mouthbrooder	Neese	05/79
Pseudotropheus zebra	Red Top Cobalt Zebra	Mouthbrooder	Warren	03/78
Pseudotropheus zebra	Red Zebra	Mouthbrooder	Warren	10/75
Pseudotropheus zebra	Red Zebra	Mouthbrooder	Reese	02/79
Pseudotropheus zebra	Red/Red	Mouthbrooder	Reese	04/79
Pseudotropheus zebra	Red/Red Zebra	Mouthbrooder	Griffin	09/79
Pseudotropheus zebra	Red/Red Zebra	Mouthbrooder	Neese	03/80

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>CATEGORY</u>	<u>BREEDER</u>	<u>DATE</u>
Pterophyllum scalare	Angelfish	Angels	Brewer	02/75
Pterophyllum scalare	Angelfish	Angels	Griffin	04/78
Pterophyllum scalare	Angelfish	Angels	Mahoney	04/80
Pterophyllum scalare	Angelfish	Angels	McInturff	08/75
Pterophyllum scalare	Angelfish	Angels	Sprague	03/75
Pterophyllum scalare	Silver Veil Angel	Angels	Lilley	06/75
Puntius conchonius	Hi-fin Rosy Barb	Barbs	Jessup	02/80
Puntius conchonius	Hi-fin Rosy Barb	Barbs	McInturff	10/76
Puntius conchonius	Rosy Barb	Barbs	Fazil	01/79
Roloffia geryi (Abuko Gambia)	Golden Pheasant	Killifish	Pauli	10/78
Roloffia occidentalis		Bottom Spawning Killifish	Brewer	05/76
Sarotherodon chilwae		Mouthbrooder	Jessup	05/75
Sarotherodon heulodontia		Mouthbrooder	Jessup	08/75
Sarotherodon mossambicus	Mossambique Mouthbrooder	Mouthbrooder	McInturff	11/76
Symphysodon aequifasciata axelrodi	Brown Discus	Difficult-Discus	Griffin	11/79
Symphysodon aequifasciata axelrodi	Brown Discus	Difficult-Discus	Pauli	05/78
Tanichthys albonubes	White Cloud	Danios, Rainbows, etc.	McInturff	04/77
Teimatachromis jacobfriebergi		Mouthbrooder	McInturff	09/76
Teimatachromis temporalis		Rift Lake Substrate	Jessup	04/75
Teimatherina ladigesi	Celebes Rainbow	Danios, Rainbows, etc.	Hoffman	09/80
Tilapia macrocephala	Black Chin Mouthbrooder	Mouthbrooder	McInturff	06/76
Trematachromis jacobfriebergi		Mouthbrooder	Reece	02/80
Trematachromis jacobfriebergi		Rift Lake Substrate	Jessup	02/76
Trematocranus sp.	Red Top Aristochromis	Mouthbrooder	Pauli	07/77
Trichogaster marmoratus	Opaline Gourami	Anabantoid	Lilley	06/75
Trichogaster trichopterus	Gold Gourami	Anabantoid	Lilley	10/75
Trichogaster trichopterus	Gold Gourami	Anabantoid	McInturff	10/75
Trichogaster trichopterus	3-spot Gourami	Anabantoid	Fazil	02/78
Xenotoca eiseni	Red Tail Goodeid	Livebearer	Brewer	10/76
Xenotoca eiseni	Red Tail Goodeid	Livebearer	Hoffman	02/80
Xenotoca eiseni	Red Tail Goodeid	Livebearer	Mahoney	11/80
Xiphophorus helleri	Albino Swordtails	Livebearer	Lilley	07/75
Xiphophorus helleri	Albino Swordtails	Livebearer	Lilley	07/75
Xiphophorus helleri	Green Swords	Livebearer	Mahoney	03/78
Xiphophorus helleri	Green Swords	Livebearer	Mahoney	10/80
Xiphophorus helleri	Red Brick Swordtail	Livebearer	Fazil	09/77
Xiphophorus helleri	Red Lyretail Swordtail	Livebearer	Lilley	07/75
Xiphophorus helleri	Red Swordtail	Livebearer	Griffin	07/79
Xiphophorus helleri	Red Swordtail	Livebearer	Neese	01/79
Xiphophorus helleri	Red Luxedo Swordtail	Livebearer	Sprague	08/75
Xiphophorus helleri	Swordtail	Livebearer	Jessup	02/80
Xiphophorus helleri	Swordtail	Livebearer	Nixon	08/75
Xiphophorus maculatus	Flame Platy	Livebearer	Mahoney	06/80
Xiphophorus maculatus	Hi-fin Platy	Livebearer	Jessup	02/80
Xiphophorus maculatus	Platy	Livebearer	Fazil	10/77
Xiphophorus maculatus	Platy	Livebearer	Holman	10/80
Xiphophorus maculatus	Platy	Livebearer	Nixon	12/75



# bap REPORT

<u>NAME</u>	<u>POINTS</u>
Garland Neese	570***
Pat & Maggi Mahoney	380***
Gerry Hoffman	355***
Woody Griffin	345***
Ruth Brewer	305***
John Jessup	210**
Darrell Holman	200**
Ken & June Reece	180**
Sue & Mike Sprague	165**
Vince Edmondson	160**
Kenny Warren	90*
Gene Aldridge	80*
Thomspon family	25
Jim Hajdics	20
Tom Wright	10

## RECENT POINTS AWARDED

Gerry Hoffman - High fin black tetra (25 points)

Woody Griffin - *Geophagus steindachneri* (15 pts)

Rom Thompson family - *Heterandria formosa* (10 pts)

Tom Wright - *Hemichromis bimaculatus* (10 pts)

Garland Neese - Flavescent peacock (10 pts)

Hap. *pseudocranilabrus* (10 pts)

Hap. *leptosoma* (10 pts)

Hap. *borterfindi* (10 pts)

Hap. *microthalmus* (10 pts)

Hap. *nigracans* (10 pts)

Hap. *nubilus* (10 pts)

Hap. *riponianus* (10 pts)

Hap. *symotees* (10 pts)

*Melanochromis auratus* (Jewell) (10 pts)

Welcome to the B.A.P. Tom Wright. Actually, Tom HAS spawned before, but just never got around to having them reported. Since he moved out into the wilds, his well water has proven not entirely to the fish' liking -- at least for spawning. But we're glad he finally made it into the roster.

Anyone interested in getting into the B.A.P. call Gerry or one of the checkers (see your January Delta Tale for names) -- or one of the officers listed on the 2nd page of this issue, who can get you in touch with a checker near you.

BOWL SHOW RESULTS AND STANDINGS, FEBRUARY, 1981

CICHLIDS

EGGLAYER/LIVEBEARERS

New World Medium

Guppies

1st - Pink convict -  
Jimmy Hajdics

no entries

Haplochromis

Barbs

No entries

No entries

Open

Open

1st - Common Angel- Amy Stirman  
2nd - A. curviceps-G. Neese  
3rd - Common Angel-Amy Stirman

1st - Brick Sword-Amy Stirman

CICHLIDS STANDINGS

MONTH

QUARTER

YEAR

Amy Stirman

8

8

8

Jimmy Hajdics

6

6

6

Garland Neese

4

4

4

EGGLAYER/LIVEBEARER STANDINGS

Mark & Ruth Prendergast

20

20

Amy Stirman

6

6

6

NOVICE CLASS: Amy Stirman, Brick Sword

MEMBERS'S CHOICE: Amy Stirman, Brick Sword

Judges: Egglayer-Livebearer: Darrell Holman  
Cichlids - Woody Griffin

MARCH BOWL SHOW CATAGORIES

CICHLIDS

EGGLAYER/ LIVEBEARERS

New World dwarf

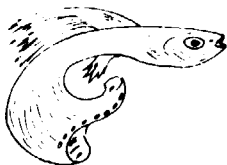
Killifish

Riftlake, non-Mbuna  
except Haplochromis

Catfish, non-Corydoras

Open

Open



**POTOMAC VALLEY AQUARIUM SOCIETY  
PO BOX 6219, SHIRLINGTON STATION  
ARLINGTON, VIRGINIA 22206**

Date \_\_\_\_\_ 19 \_\_\_\_\_

APPLICATION FOR MEMBERSHIP

NAME \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

PHONE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

Number of tanks \_\_\_\_\_

Type of fish \_\_\_\_\_

Time in hobby \_\_\_\_\_

Fish you have spawned \_\_\_\_\_

What you would like  
to do in this Club? \_\_\_\_\_

Which sub-group interests  
you? (guppy, cichlid, other) \_\_\_\_\_

How long do you plan to be in this area? \_\_\_\_\_

Occupation \_\_\_\_\_

Membership dues for the Potomac Valley Aquarium Society are:

Family            \$10.00  
Individual       \$ 7.00

Corresponding   \$5.00  
Junior             \$3.00  
(under 18)

Completed applications accompanied by your check or money order should  
be mailed to P.V.A.S., P.O. Box 6219, Arlington, Virginia 22206.

Please attend our meetings at the Cocoa-Cola Bottling Plant, 5401  
Seminary Road, Alexandria, Virginia at 8:00 P.M.