



## Durham Region Aquarium Society (DRAS) Membership Handbook

### ***Introduction***

This Membership Handbook has been compiled to make you aware and informed of some of the Durham Region Aquarium Society's activities, programs and procedures, as well as to inform of larger organizations to which DRAS belongs or is involved with.

If there is some information that you believe requires clarification, or if you have suggestions as to what should be included in future revisions of the DRAS Membership Handbook, please contact a member of the DRAS Executive.

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## **Club History**

While we have no historical records, prior to 1967 there were two aquarium clubs in the geographic region of what is now known as the Regional Municipality of Durham. The first of these two clubs met in Bowmanville, Ontario, and the second club met in Oshawa, Ontario.

The aquarium club located in Oshawa folded, and the Bowmanville club continued for another few years before it also ceased to function.

In January 1967, several interested people again started meeting in fellow enthusiast's homes. At that time the name Bowmanville and District Aquarium Society was adopted. As the membership grew, meeting locations shifted around region and have included Hetman Hall, the Civic Auditorium, St. Gregory's Auditorium, Central Collegiate Institute, R.S. McLaughlin Collegiate and Vocational Institute, Dr. F.J. Donevan Collegiate, and our current home, Anderson Collegiate.

On January 1<sup>st</sup>, 1974 the Government of Ontario established a new regional government in the Oshawa and surrounding area and named it the Regional Municipality of Durham. It was felt that the society should change its name to reflect the area from which it drew its membership. Several names were considered, but our present name, the *Durham Region Aquarium Society* (abbreviated as DRAS) was voted by the membership of the time to be the most appropriate.

## **Historical Highlights**

1967

- First meeting of the Bowmanville and District Aquarium Society at the residence of Trudy & Roy Kemp.
- First Annual Show held.

1975

- June – The name of the society is changed from the Bowmanville and District Aquarium Society to the Durham Region Aquarium Society.

1977

- The Breeders Award Program (BAP) is created.

1978

- January – The name *Tank Talk* is proposed by Wayne Hopkins to be the official name of the DRAS monthly bulletin and the membership agrees.
- May – DRAS hosts the 17<sup>th</sup> Convention of the Canadian Association of Aquarium Clubs (CAOAC).

1983

- May – The constitution of the Durham Region Aquarium Society is formally adopted.
- September – Peter Naef is named a Honourary Member of DRAS.

1987

- May – DRAS hosts the 28<sup>th</sup> Convention of the Canadian Association of Aquarium Clubs (CAOAC).

1989

- April – The Aquatic Horticulturist Awards Program (AHAP) was created.
- June – Wayne Rakestrow is named a Honourary Member of DRAS.

1997

- Tank Talk, the DRAS newsletter, celebrates 25 continuous years of publication.

1998

- February – DRAS holds its first Annual Awards Dinner

2001

- Geoff Daw establishes the first website for DRAS.

2002

- Tank Talk is the first winner of the CAOAC Newsletter Award.

2003

- May – Diana Pearson is elected the first female president in the history of DRAS.

2004

- September – The current website address, [www.dras.ca](http://www.dras.ca), is established with Annette Buchkowski assuming the role of the first DRAS webmaster.

2005

- DRAS hosts the 46<sup>th</sup> Convention of the Canadian Association of Aquarium Clubs (CAOAC)

2007

- Derek Tustin is named the Federation of American Aquarium Societies (FAAS) Author of the Year.

2008

- Doug White is named a Honourary Member of DRAS.
- Derek Tustin is named the Federation of American Aquarium Societies (FAAS) Author of the Year for the second consecutive year.

2009

- June – DRAS becomes the first Canadian member of the C.A.R.E.S. (Conservation, Awareness, Recognition, Encouragement, and Support) Preservation Program.

### ***Society Presidents***

1967 – 1969	Peter Naef	1995 – 1995	Donna Schinkel
1970 – 1971	John Kirkwood	1995 – 1997	Frank Caputo
1972 – 1973	Peter Naef	1997 – 1999	Kevin Bartley
1974 – 1975	Keith Mountjoy	1999 – 2001	Jim Taylor
1976 – 1978	Wayne Rakestrow	2001 – 2003	Wayne Rakestrow
1979 – 1980	John Roth	2003 – 2005	Diana Pearson
1981 – 1984	Wayne Rakestrow	2005 – 2006	Keith Woods
1984 – 1985	Jim Brown	2005 – 2010	Klaus Steinhaus
1985 – 1989	Wayne Rakestrow	2010 – 2014	Joanne Harder
1989 – 1990	Peter Pulman	2014 – 2016	Tom Mason
1990 – 1993	Wayne Rakestrow	2016 – 2017	Joanne Harder
1993 – 1995	Jim Brown	2017 – 2018	Doug Chessell

### ***Monthly Meetings***

We meet on the second Tuesday of every month (except July and August) in the cafeteria of Anderson Collegiate (400 Anderson Street) in Whitby, Ontario. The meetings start at 7:30 PM and generally end around 10:00 PM.

During the meetings we hold a short business meeting, present an informative or educational program, and have an auction of hobby related items (fish, plants and aquarium related items & supplies). Refreshments and access to the club library are also usually available.

### ***Monthly Programs***

At each meeting (except for November) we have a special guest speaker or a member present on various aspects of the aquarium hobby, or occasionally present a video that will be beneficial to the general membership. Past presentations have focused on a variety of species of fish, various plants and associated aquaculture, adventures in fish (and plant) keeping, ponds, breeding methods, dietary requirements and production of home-made foods, live foods, and fish photography. There is usually a question and answer period that follows the presentation.

Speakers from DRAS are always welcome to submit both presentation ideas and proposals for their own presentations, and the standing Program Chair should be contacted directly.

### ***Monthly Auctions***

At every Durham Region Aquarium Society meeting there is an auction. All items auctioned are related to the aquarium hobby and are labeled with the contents, be they fish or plants. Equipment is also auctioned and should be labeled as to the condition of the item (functioning, missing an item, etc.). While all items are auctioned at the buyers

risk, the auctioneer and the executive members can and will remove diseased fish or unsuitable items (such as fish or plants prohibited in Ontario).

The November meeting is also our Annual Giant Auction (not to be confused with the Aquariama Annual Auction held in April). At the November meeting, in place of the usual program, the entire meeting is dedicated to the auction. One of our major fundraising activities, attendees will usually find over 100 (sometimes as many as 150 items) of high quality aquarium related items, such as fish, plants, aquariums, heaters, lights, food, books and magazines.

### ***How to Enter Items In The Auction***

To enter any items in a Durham Region Aquarium Society auction, be it the mini-auction held at all meetings, the Annual Giant Auction in November, or the Annual Show and Auction in April, you must obtain an *auction form* from either the treasurer or download a copy from [www.dras.ca](http://www.dras.ca). On that form you will list your items and upon submission to the treasurer you will be assigned a letter code and given stickers to identify your item(s).

The proceeds from the auctions are divided on a percentage basis. As the percentage can change, please check with the treasurer for the exact split.

### ***Club Library***

Recognizing the desire of some members to study specific aspects of the aquarium hobby, the Durham Region Aquarium Society established a lending library. The DRAS lending library provides an excellent source not only for aspects of the hobby in which you are already involved, but provides avenues of investigation for other areas of which you may have an interest. Available at most meetings, the librarian holds a wide selection of books on various aspects of the aquarium hobby. Should you desire a book on a specific subject, please contact the librarian to determine what items are available, or browse the selection on meeting nights.

### ***The DRAS Aquariama***

Once a year, the Durham Region Aquarium Society hosts a Tropical Fish Auction. The auction draws seller entries from all over Southern Ontario and those states bordering on Lake Ontario and Lake Erie. One of the highlights of the DRAS year, it provides the opportunity for members and other fish enthusiasts to purchase stock ranging from the rare and unique to locally bred classics of both fish and aquatic plants.

### ***The DRAS Website***

[www.dras.ca](http://www.dras.ca) is a valuable source of information about the Durham Region Aquarium Society. Updated on a regular basis by our resident web-master, it provides information on the next scheduled meeting, the speaker, and directions on how to get to the meeting location. It also provides contact information for the standing executive, the current

standings of both the Breeds Award Program (BAP) and the Aquatic Horticulturist Awards Program (AHAP), information on how to submit entries to those programs along with downloadable copies of the submission forms, a downloadable form for auction submissions, a wealth of articles written by our club members, and access to our forums.

### ***The DRAS Forums***

Created in May 2007, the DRAS Forums have quickly become a place where club members can virtually connect to both fellow members and hobbyists from around the country. Featuring forums for numerous species of fish, a dedicated plant forum, equipment and technical issues forum, a help forum, and a general lounge, the DRAS Forums can provide assistance to any level of hobbyist and provide an interesting forum to exchange ideas.

While the forum itself is open to the general public to join, there is a dedicated area within the forums accessible only to DRAS members where issues can be presented to the executive and past issues of Tank Talk downloaded.

### ***Tank Talk***

The official name of our monthly bulletin is *Tank Talk*. A former member, Wayne Hopkins, suggested this name and it was approved by the membership at the January 1978 meeting.

Starting in September 2009, Tank Talk became an entirely electronic publication with distribution to the membership and our exchange partners via e-mail.

The society has an editor who does his or her best in putting together a publication that is informative, containing articles from our own members, articles that have been identified as interesting to our members from other aquarium clubs' publications, a monthly announcement from our president, and updates on club activities.

DRAS actively encourages our membership to submit articles for publication in *Tank Talk*. Remember that by recording and sharing your experiences in the hobby, others will benefit.

### ***Trading Post***

Tank Talk contains a dedicated section where members can list items that they have for sale, have for trade, or items that they are seeking.

### ***The Executive***

Like all aquarium clubs and societies, we have a group of elected officers who meet once a month to manage the running of our club. They plan future meetings and events to ensure that the membership obtains the greatest benefit possible from the monthly

meetings. Executive meetings are open to the general membership and new ideas are always welcome.

A complete list of the current standing executive and committee chairperson are published in every edition of Tank Talk and is also available on our website.

### ***DRAS... A Proud Member Of...***

DRAS maintains membership in several aquarium umbrella organizations to maximize our participation in the hobby in general and to avail ourselves of resources to manage our club and benefit our membership. Currently DRAS is a member of the following organizations;

#### **Canadian Association of Aquarium Clubs (CAOAC)**

The Canadian Association of Aquarium Clubs is an organization representing aquarium clubs and societies from Canada and the northern United States. Formed approximately 50 years ago, it promotes, helps and encourages anyone with an interest in anything aquatic. Along with the administration assistance that it provides various clubs and societies, it also offers competitive and recognition awards for various aspects of the hobby including (but not limited to) Breeds Award Program, Aquatic Horticulturist Award Program, and Authors Award Program.

Further information can be found at: [www.caoac.ca](http://www.caoac.ca)

#### **Federation of American Aquarium Societies (FAAS)**

The Federation of American Aquarium Societies is an organization representing aquarium clubs and societies in North America, Central America and South America. While FAAS is intended to facilitate the administration of aquarium clubs and societies, it also offers award programs recognizing excellence in both publication and website design.

Further information can be found at: [www.faas.info](http://www.faas.info)

#### **C.A.R.E.S. (Conservation, Awareness, Recognition, Encouragement, and Support) Preservation Program**

DRAS is proud to be the first Canadian aquarium club member of the C.A.R.E.S. Preservation Program.

Founded in 2004, the CARES Preservation Program is based on the significance of conservation of endangered species. By dedicating tanks to species that are at risk, member organizations can assist in the conservation and preservation of these endangered fish.

Further information can be found at: [www.carespreservation.com](http://www.carespreservation.com)

### **Fish Rescue Program**

The Fish Rescue Program was created to eliminate tropical fish and other aquatic creatures from being released into our Canadian waterways.

The Durham Region Aquarium Society is proud to be a partner in this program with the following organizations;

- Toronto Zoo
- Royal Ontario Museum
- Ontario Federation of Anglers and Hunters
- Canadian Fisheries and Oceans
- Ontario Ministry of Natural Resources
- Canadian Association of Aquarium Clubs
- Pet Industry Joint Advisory Council
- Local aquarium clubs and societies across Canada

Most aquarium fish, aquatic plants, crayfish, snails, frogs, salamanders and turtles are not native to Ontario. Releasing them into a lake, river, pond or wetland could establish a new population with long reaching impacts, both environmental and economical. Awareness and common sense will help prevent the introduction of these non-native species into Ontario's waterways.

The release of aquarium pets is illegal and harmful. As a concerned aquatic hobbyist, you can help by doing the following:

- Know your fish before you buy! Some fish, such as pacu (*Colossoma brachypomum*) and the Chinese hi-fin shark (*Myxocyprinus asiaticus*) will require a large aquarium when they grow to their full size. *Fish size is not restricted by tank size!*
- Drain your aquarium water on dry land. Never release or flush unwated aquarium pets or aquarium water into natural waters, drainage ditches or sewers.
- Dispose of aquarium plants by simply drying or burning them.
- Donate unwated aquarium fish, snails or plants to a pet store, school or fellow aquarium hobbyist. Advertise to give them away for free.
- Find a home for unwanted aquarium pets through the Fish Rescue Program. Contact the Canadian Association of Aquarium Clubs (CAOAC) ([www.caoac.ca](http://www.caoac.ca)) at 905-682-2991 or by calling the toll-free *Invading Species Hotline* at 1-800-563-7711.

If you must give up your aquarium pets and plants, please consider their well being as well as their potential impact on the environment.



## ***Aquatic Horticultural Awards Program (AHAP)***

For those that have a green wet thumb and enjoy growing plants in your backyard pond or aquarium, then perhaps this program is for you. Everything from the common duckweed to the majestic Madagascar lace plant is eligible. The harder a plant is to grow, the more points you earn allowing you to progress up the levels of increasing difficulty.

At the first level a framed certificate is presented, and at each level thereafter a gold seal is added to the certificate.

DRAS recognizes those that have achieved the different levels of difficulty in both *Tank Talk* and on our website. The Canadian Association of Aquarium Clubs (CAOAC) also offers a similar program, and the AHAP chair can be contacted for more information.

The guidelines for the Aquatic Horticultural Awards Program as offered by DRAS follow...

### **AHAP Program Details**

#### **Purpose**

- To encourage participation in DRAS activities.
- To expand DRAS activities.
- To recognize outstanding achievement in the maintenance and propagation of aquatic plants.
- To gather information and accumulate knowledge related to aquatic plants, and to encourage their use in the home aquarium.
- To identify new aquatic plants species and to determine the conditions necessary for their optimum maintenance.

#### **AHAP Guidelines**

The Aquatic Horticultural Awards Program shall consist of;

- The Aquatic Horticultural Awards Program chairperson, and
- The DRAS executive.

Plants reproduced must conform to the following definition of an aquatic plant: *“An aquatic plant is one which, in the wild or native state, can be found in the submerged state as a normal occurrence at some time during the course of a calendar year.”*

Decisions of the committee are final and will be based on such books as the *Encyclopedia of Water Plants* (Dr. Jiri Strodola), *Aquarium Plants and Their Identification, Cultivation and Ecology* (Dr. Karel Rataj and Thomas J. Horeman), *The Complete Guide to Water Plants* (Helmut Muhlberg) and *Aquarium Plants* (Christel Kasselmann).

Members must contact the AHAP chairperson to receive credit. The chairperson (or a person designated by the chairperson) must view the plant in the early stages of growth. In the “E”, “F”, and “G” classes (listed below), the plant must be verified at least twice when flowering and again when the young plant is old enough to look like the parent plant. The AHAP committee reserves the right to exclude any plant that is questionable.

The following will be considered the basis for reproduction:

- *Floating Plants* – doubling the original amount.
- *Bunch Plants* – doubling the original amount to be determined by a root count of growing stems, or by volume.
- *Reproduction by Runner or Division* – one healthy plant capable of living independently from the parent plant which the parent plant is still alive and in good health. (Bunch type plants are not considered a part of this classification).
- *Sexual Reproduction* – one plant reproduced from seed(s) obtained from the aquarist’s own parent plant. Seeds are to be produced from parent plants in the aquarist’s own possession, not from a supplier or plant distributor.)
- *Flowering* – must be verified when in full bloom and attached to the aquarist’s own plant in the aquarium or pond.

A complete *Aquatic Horticultural Report* must be submitted and signed by the participant before any points will be awarded. It is the responsibility of the participant to include the species scientific name. Unidentified species will be assigned a code number for record keeping purposes until scientifically identified. A good colour image will be required for any unidentified plant. The image will become the property of the Durham Region Aquarium Society until the plant is identified.

Anyone joining DRAS will be allowed to transfer points from another club having acceptable rules. The AHAP Committee will decide the acceptability of those rules after scrutinization of the previous club’s program.

Awards must be earned in progression, and therefore skipping levels is not permitted.

## Recognition

Points will be awarded only once according to the attached schedule. Awards will be presented as follows based on the accumulation of points:

- *Aquatic Horticulturist*
  - 50 (fifty) points from any class.
- *Intermediate Horticulturist*
  - 100 (one hundred) points.
  - Must include at least 10 (ten) species with a minimum of;
    - 4 (four) species from class B and/or C.

- *Advanced Horticulturist*
  - 175 (one hundred and seventy-five) points.
  - Must include at least 20 (twenty) species with a minimum of;
    - 2 (two) species from class C, and
    - 2 (two) species from class D.
  
- *Expert Horticulturist*
  - 250 (two hundred and fifty) points.
  - Must include at least 30 (thirty) species with 1 (one) specie from class E.
  
- *Master Horticulturist*
  - 500 (five hundred) points.
  - Must include 40 (forty) species with;
    - 3 (three) species from class D,
    - 3 (three) species from class E,
    - 2 (two) species from class F, and
    - 1 (one) specie from class G.
  
- *Grand Master Aquatic Horticulturist*
  - 1000 (one thousand) points.
  - Must include 80 (eighty) species plus the following:
    - Minimum of 3 (three) lectures  
–or–
    - 3 (three) photo essays (10 photos each – pictures must include the rootstock, stems, leaves, flowers and seeds)  
–or–
    - Article of identification of a plant to be no fewer than 2000 (two thousand) words for use in a local or national publication.

A certificate, suitable for framing, shall be provided to participants upon reaching the Aquatic Horticulturist level, and a seal will be awarded for each level up to and including the Master Horticulturist level.

A plaque will be awarded to the participant upon reaching the Grand Master Horticulturist level.

## **AHAP Plant Grouping and Point Allocation**

### ***Class A – 5 Points***

#### **General Species**

*Azolla* species

*Ceratophyllum* species

*Ceratopteris* species

*Elodea* species

*Lemna* species

*Riccia* species

*Salix* species

*Salvinia* species

*Spirodella* species

*Vesicularia* species

*Wolffia* species

#### **Specific Plants**

None

### **Class B – 10 Points**

#### **General Species**

*Acorus* species  
*Alternanthera* species  
*Ambulia* species  
*Bacopa* species  
*Cardamine* species  
*Cobomba* species  
*Crassula* species  
*Eleocharis* species  
*Fontinalis* species  
*Heterandria* species  
*Hydrilla* species  
*Hydrocotyle* species  
*Hygrophilla* species  
*Isoetes* species

*Lilaeopsis* species  
*Limnophila* species  
*Lobelia* species  
*Ludwigia* species  
*Myriophyllum* species  
*Najas* species  
*Nitella* species  
*Nomophila* species  
*Nyphoides* species  
*Potamogeton* species  
*Rotala* species  
*Sagittaria* species  
*Utricularia* species  
*Vallisneria* species

#### **Specific Plants**

*Echinodorus tenellus* (pygmy chain sword)  
*Hygrophilla difformis* (water wisteria)

*Samolus valerandi*  
*Saururus cemus*

### **Class C – 15 Points**

#### **General Species**

*Aponogeton* species  
(except Madagascar lace plant)  
*Bolbitis* species  
*Blyax* species  
*Crinum* species  
*Cryptocoryne* species  
*Echinodorus* species  
(except pygmy chain sword)

*Echorina* species  
*Eichhornia* species  
*Isotes* species  
*Marsilia* species  
*Nymphaea* species  
*Pistia* species

#### **Specific Plants**

*Didiplis diandra*  
*Lararosiphon major*  
*Microsorium pteropus*  
*Trapa natans*

### **Class D – 20 Points**

#### **General Species**

*Aldrovandia* species  
*Anubias* species

*Barclayalongifolia* species  
*Caulerpa* species

*Lagenandra* species

*Nuphar* species

### **Specific Plants**

*Aponogeton madagascariensis*

*Ottelia alismoides*

### **Class E – Flowering**

- Extra points and recognition shall be awarded for all reported flowerings of aquatic plants.
- The additional points will be the same as for the actual propagation of the plant according to the above lists.

### **Class F – Seeds**

- Extra points shall be awarded for all seeds.
- The additional points will be the same as for the actual propagation of the plant according to the above lists,

### **Class G – Sexual Reproduction**

- Extra points shall be awarded for growing new plants from the seeds of Class F.
- The additional points will be the same as for the actual propagation of the plant according to the above lists.

**Note** – *The Plant Grouping and Point Allocations is only a partial list of plant species. If you have propagated a plant that is not on the above list, please contact the Aquatic Horticultural Awards Program Chairperson.*

### ***Breeders Award Program***

For those of you that enjoy breeding and raising tropical fish, this program is designed to recognize your efforts. Everything from guppies to discus are eligible. The harder a fish is to spawn, the more points earned. Additional points are given upon submission of a written report that may be published in *Tank Talk*. Gold seals are affixed to a framed certificate at various levels of accomplishment.

A list of participants is usually included in *Tank Talk* and on the website.

### **BAP Program Details**

#### **Purpose**

- To encourage participation in club activities
- To expand club activities
- To share knowledge and techniques of spawning fish
- To recognize achievement in breeding and rearing aquarium fish

## BAP Guidelines

The Breeders Award Program Committee shall consist of;

- The Breeders Award Program chairperson,
- The *Tank Talk* editor
- Members holding a CAOAC BAP Intermediate Award or higher, and
- Members achieving the Senior Award (should they so choose to participate).

Each species or classification can be awarded points for the first breeding only.

All fish must be a distinct species (with colour and locality variations and albinism being considered the same species).

Members must contact the BAP chairperson providing the date of spawning as well as the common and proper name of the fish and the chairperson (or a person so designated by the chairperson) must view the fish in the early stages of development and a second time approximately two months later.

Fish must be spawned and the young raised to a suitable size and number before points will be awarded.

If the member is considering applying for a CAOAC Breeders Award, the applicant should attempt to raise a quantity of fry that approached production capability of the species in question.

A challenge of a given fish or fish not listed in the schedule must be submitted in writing to the BAP chairperson for consideration by the committee.

Decisions of the committee are final and will be based on acceptable literature.

Records must be kept on the breeding, spawning and rearing of the fish and an additional 5 points will be awarded on receipt of a written report of the breeding and rearing acceptable to the editor for publication in *Tank Talk*.

Anyone joining DRAS will be allowed to transfer points from another club having acceptable rules, after scrutinization by the BAP Committee.

The BAP Committee, at its discretion, may award points for special line breeding or colour specialization.

## Recognition

Points will be awarded once to an individual, group or family, and will be awarded according to the following schedule. Awards will be presented based on the accumulation of points.

- *Novice Breeder*
  - 50 (fifty) points from any class.

- *Junior Breeder*
  - 100 (one hundred) points from Class B, Class C or Class D.
- *Intermediate Breeder*
  - 250 (two hundred and fifty) points,
  - At least 45 (forty-five) points from Class C or Class D
- *Senior Breeder*
  - 400 (four hundred) points,
  - At least 150 (one hundred and fifty) points from any single class
- *Advanced Breeder*
  - 500 (five hundred) points,
  - At least 1 (one) species from Class D.

Special award appliquéés will be added to the Advance Award for each 200 (two hundred) points subsequently earned.

## **BAP Point Classification of Fishes Spawned**

### ***Class A – 5 Points***

#### **Fish**

##### **General Species**

*Brachydanio* species  
*Danio* species  
*Gambusia* species  
*Haplochromis* species  
*Oryzias* species

*Poecilia* species  
*Rivulus* species  
*Saratherodon* species  
*Xiphophorus* species

##### **Specific Species**

*Aphyocharax anisitsi*  
*Aphyosemion australe*  
*Aphyosemion gardneris*  
*Aplocheililus lineatus*  
*Aplocheililus panchax*  
*Betta splendens*

*Cichlasoma nigrofasciatum*  
*Epiplatys degetis*  
*Macropodus opercularis*  
*Pachypanchax playfairi*  
*Tanichthys albonubes*  
*Trichogaster trichopterus*

#### **Snails**

##### **General Species**

*Ampuria* species  
*Campeloma* species

*Vivipara* species

##### **Specific Species**

*Marisa rotulas*

## **Class B – 10 Points**

### **General Species**

- Any anabantoid not listed in Class A, Class C or Class D.
- Any cyprinid not listed in Class C or Class D.
- Any livebearer not listed in Class A, Class C or Class D.
- Any member of the family *Goodeidae*.
- Any mop-spawning killiefish not listed in Class A.
- Any halfbeak species.

*Aequidens* species

*Aulonacara* species

*Badis* species

*Bedotia* species

*Belonesox* species

*Carassius* species

*Chilatherina* species

*Hemichromis* species

*Pelmatochromis* species

*Pelvicachromis* species

*Haplochromis* species

*Glossolepis* species

*Gymnogeophagus* species

*Mbuna* species

*Melanotaenia* species

*Pseudomugil* species

### **Specific Species**

*Geophagus braziliensis*

*Geophagus rhabdotus*

*Gymnocorymbus ternetzi*

*Hyphessobrycon anisitsi*

*Hyphessobrycon flammeus*

*Iriatherina weneri*

*Pterophyllum sclare*

## **Class C – 15 Points**

### **General Species**

- Any African species not listed in Class A, Class B or Class D.
- Any American minnow.
- Any *Characins* not listed in Class B or Class D.
- Any *Cichlasoma* species not listed in Class A or Class D.
- Any *Crenicara* species not listed in Class B.
- Any *Crenicichla* species not listed in Class B.
- Any filament species.
- Any koi.
- Any pencilfish.
- Any rasbora.
- Any stickleback.
- Any soil-breaking killis not listed in in Class D.
- Any sunfish.

*Ancistrus* species

*Apistogramma* species

*Arulius* species

*Belontia* species

*Corydoras* species

*Etroplus* species

*Geophagus* species



**Specific Species**

*Puntius everetti*

*Puntius laterstriga*

*Trichopodus microlepis*

*Trichopodus pectoralis*

*Trichopsis vittata*

**Class D – 20 Points**

**General Species**

- All catfish not in Class C.
- Any Asiatic algae eater.
- Any hatchetfish.
- Any headstander.
- Any Old World shark.
- Any piranha.
- Syngnathid fishes that bear live young after having been maintained by the breeder's past the gestation period of one spawn.

*Anableps species*

*Astronotus species*

*Aulonocranus species*

*Acanthopthalmus species*

*Brachygobius species*

*Brochias species*

*Crenicichla species*

*Cyanthopharynx species*

*Monodactylus species*

*Ophthalmotilapia species*

*Osphronemus species*

*Pantodon species*

*Pterolebias species*

*Symphysodon species*

*Teleocichla species*

*Tropheus species*

*Uaru species*

*Xenotilapia species*

**Specific Species**

*Ambystoma mexicanum* (axoloti)

*Barbonymus schwanenfeldii*

*Helostoma temminckii*

*Hyphessobrycon herbertaxelrodi*

*Metynnis argenteus*

*Paracheiroduon axelrodi*

*Paracheiroduon innesi*

*Paramassis ranga*

*Pseudoepiplatys annulatus*

*Pterophyllum altum*

*Pterophyllum dumerili*

*Phenacogrammus interruptus*

*Sphaerichthys osphromenoides*