

# The CARES Exchange

Volume I Number 2

**CARES Area of Concern**

**Lake Malawi**

April 2017

**CARES Club Data Submission is April 30th!**

**The Directory of Available CARES Species**

**Newest Additions to the CARES Team**

**New England Cichlid Association CARES**



Welcome to the **The CARES Exchange**. The primary intent of this publication is to make available a listing of CARES fish from the CARES membership to those that may be searching for CARES species.

It is important to understand that all transactions are between the buyer and seller and CARES in no way moderates any exchanges including shipping problems, refunds, or bad blood between the two parties. This directory merely provides an avenue to which CARES fish may be located. As with all sales, be certain that all the elements of the exchange are worked out before purchasing or shipping.

No hybrids will knowingly be listed.

There is no cost to place a for sale ad. Your ad may be submitted by contacting the editor, Greg Steeves, at [greg@CARESforfish.org](mailto:greg@CARESforfish.org).

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[www.cichlidae.com](http://www.cichlidae.com)

The Cichlid Room Companion is the most comprehensive website for cichlid information in the world. For all things cichlid, including information, photos, and video on most CARES Priority List Species visit CRC.

If your organization is interested in participating in

CARES, review the 'CARES Startup' tab on the website [CARESforfish.org](http://CARESforfish.org), then contact Klaus Steinhaus at [klaus@CARESforfish.org](mailto:klaus@CARESforfish.org).

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This issue of The Exchange was release to coincide with the due date for CARES Member Clubs to make your data submissions. All submissions must be submitted by April 30th in the new file format. Learn more on page 7.

Pam Chin explains the stressors affecting Lake Malawi. Pay close attention to what is going on there! Take your CARES role seriously. Without your efforts, the fish we enjoy today might not be around tomorrow,

Your CARES Exchange Editor,  
- Greg Steeves

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### The CARES Family

American Cichlid Association  
 Aquarium Club of Lancaster County  
 Brooklyn Aquarium Society  
 Chatham-Kent Aquarium Society  
 Cichlid Club of York  
 Columbus Area Fish Enthusiasts  
 Danbury Area Aquarium Society  
 Durham region Aquarium Society  
 Grand Valley Aquarium Club  
 Greater Cincinnati Aquarium Society  
 Greater City Aquarium Society  
 Greater Seattle Aquarium Society  
 Federation of Texas Aquarium Societies  
 Iowa Aquatic Hobbyists Fish Forum  
 Jersey Shore Aquarium Society  
 Kitchener Waterloo Aquarium Society  
 London Aquarium Society  
 Michiana Aquarium Society  
 Milwaukee Aquarium Society  
 Missouri Aquarium Society Inc.  
 New England Cichlid Association  
 North Jersey Aquarium Society  
 Norwalk Aquarium Society  
 Quad City Fish Keepers  
 Rocky Mountain Cichlid Association  
 Sacramento Aquarium Society  
 St. Catherines & Area Aquarium Society



### **A warm welcome to Cares Team Specialist Ken Boorman!**

CARES is so fortunate to have Ken Boorman step up to volunteer his experience and time as one of our CARES Priority List Rainbow Fish Coordinators and he joins our extraordinary team of CARES Specialists!

Originally from Australia and now living in Chatham, Ontario, Ken has kept fish for over 50 years. A good part of this time he has dedicated exclusively to collecting, keeping, and breeding several families of Australian and New Guinea native fishes in his numerous home aquariums. He has been a member of the Australian New Guinea Fishes Association for many years and is currently the North American Coordinator for that group. Ken is also President of the Chatham-Kent Aquarium Society and an active member as well as Vice President of the Canadian Association Of Aquarium Clubs. He will be familiar to many people as the person who operates Lisa's Lair Bookstore [www.lisalairbookstore.com/](http://www.lisalairbookstore.com/) and is well-read on most aquarium and terrarium subjects. Ken has made presentations at many Canadian and an increasing number of United States clubs.

Welcome, Ken! We are so glad to have you!



### **A warm welcome to CARES Data Coordinator Chris Lewis!**

How lucky we are to have Chris Lewis volunteer his experience and talent as our CARES Data Coordinator! CARES is thrilled to have him take on this important role.

Chris has a lifelong love of fish and nature and has been a hobbyist for over 30 years. As a child, he found the breeding angelfish in his uncle's Metaframe tanks fascinating and it was not long before he had his own 20-gallon community tank. This first setup contained way too many air operated decorations. In addition, it was stocked with one or two of every fish available. Obviously, this first endeavor was not a success. However, with lots of research and assistance from fellow hobbyists he still enjoys all this hobby offers. Currently active in the San Antonio Aquatic Plant Club and the Hill Country Cichlid Club, Chris also serves as Treasurer of the Federation of Texas Aquarium Societies and has given presentations on various topics ranging from setting up a planted tank to housing cichlids with live plants. All of this has led to even more rewarding aspects of the hobby including conservation.

Welcome, Chris! We are so glad to have you!



## A Warm Welcome to CARES Press Coordinators Scott McLaughlin and Elizabeth Napier-Bonvillain!

Scott McLaughlin and Elizabeth Napier-Bonvillain bring immense enthusiasm and innovation, rich with the CARES spirit of positivity, as our CARES Press Coordinators. This dynamic duo is simply amazing!

### Scott McLaughlin

Scott was born in Teaneck, New Jersey where his parents had a 55-gallon tank with cast iron stand filled with goldfish. This would be the introduction to keeping fish that led to Scott's future passion for cichlids. Later in his youth, Scott and his family moved to Greensboro, North Carolina. In his early teens

Scott used some of his allowance to purchase his first tank. This was a 20-gallon freshwater aquarium, decorated with a 'hot' pink cave and home to a red tailed shark named... (you guessed it) Jaws!

As Scott grew older, his passion for tropical fish grew stronger which led to more tanks and an introduction to his first cichlids. By age 30, Scott had kept several different species of cichlids with his main focus being those found in the Central and South America region. In 2008 at age 40, Scott accepted a job offer and moved to York, Pennsylvania. Moving to a new city where you don't know anyone is never easy, but Scott used the opportunity to build the fishroom he always dreamed of and expand on his collection of South and Central American cichlids.

On December 1, 2012 Scott created the Cichlid Club of York PA in the hopes of finding like-minded people who enjoyed cichlids. The Cichlid Club of York PA was a big success and Scott became its first President, a role he retained for three years. Today Scott helps the American Cichlid Association as Chairperson for the Breeder of the Year Program and Zoo Med/ACA Speaker Program. He also hosts the ACA monthly photo contest.

Scott currently houses 30 different cichlids in tanks holding over 1200 collective gallons. He has won multiple awards for showing his cichlids as well as awards for original articles, photography, and breeding.

### Elizabeth Napier-Bonvillain

For over 20 years Elizabeth has been an animal activist. Working as a vet tech for Animal Rescue, Inc. since 2008, Elizabeth has dedicated her life to protecting all animals. She began keeping tropical fish later than most, setting up her first tank in 2011. Elizabeth was instinctively drawn to the larger cichlids found in the lakes of Central and South America and has built her studies around these cichlids.

In 2013 Elizabeth joined an up and coming club called the Cichlid Club of York PA, where over the years she would act as Auction Chair, Sponsor Liaison, and Membership Chair. Known throughout the tropical fish show circuit for her many victories showing cichlids, she has also written numerous articles for the online publication **Cichlid Chronicles**.

### King and Queen Cichlids

In 2015 Scott and Elizabeth created the popular cichlid information website **King and Queen Cichlids** ([kingandqueencichlids.com](http://kingandqueencichlids.com)), a one-stop cichlid event and information center. Together they have become known as the King and Queen of promotions and are recruited regularly to help promote and boost sales of upcoming tropical fish conventions.

Welcome, Scott and Elizabeth! We are so glad to have you join the CARES family!



## Meet your CARES Preservation Team

[Juan Miguel Artigas Azas](#)

CARES Speaker  
 CARES Team Specialist  
 CARES Website Administrator  
 Central America Regional Coordinator  
 Cichlid Group Coordinator

[Phil Benes](#)

CARES Team Specialist

[Ken Boorman](#)

CARES Team Specialist  
 Rainbowfish Group Coordinator

[Pam Chin](#)

CARES Speaker  
 CARES Team Specialist

[Jim Cumming](#)

CARES Speaker  
 CARES Team Specialist

[Leslie Dick](#)

CARES for Individuals  
 CARES Speaker  
 CARES Team Specialist

[Claudia Dickinson](#)

CARES Founder and Program Coordinator  
 CARES Priority List Coordinator

[Joe Ferdenzi](#)

CARES Team Specialist

[Lee Finley](#)

CARES Team Specialist

[José Gonzalez](#)

CARES Team Specialist

[Sonia Guinane](#)

CARES Team Specialist

[Michael Hellweg](#)

CARES Speaker  
 CARES Team Specialist  
 Characin Group Coordinator  
 Cyprinid Group Coordinator

[Lawrence Kent](#)

CARES Speaker  
 CARES Team Specialist

[Ad Konings, Ph.D.](#)

Cichlid Group Coordinator  
 CARES Team Specialist  
 Lake Malawi Regional Coordinator  
 Lake Tanganyika Regional Coordinator

[Rosario LaCorte](#)

CARES Team Specialist

[Anton Lamboj, Ph.D.](#)

CARES Team Specialist  
 Anabantid Group Coordinator  
 Cichlid Group Coordinator  
 West Africa Regional Coordinator

[Gary Lange](#)

CARES Team Specialist  
 Rainbowfish Group Coordinator

[Wayne Leibel, Ph.D.](#)

CARES Team Specialist

[Chris Lewis](#)

CARES Data Specialist  
[Paul V. Loiselle, Ph.D.](#)  
 CARES Consultant  
 CARES Speaker  
 Technical Editor of Freshwater Fishes

Cichlid Group Coordinator

Madagascar Regional Coordinator

[Hernán López-Fernández, Ph.D.](#)

CARES Team Specialist  
 South America Regional Coordinator  
 Cichlid Group Coordinator

[John Lyons, Ph.D.](#)

CARES Team Specialist  
 Goodeid Group Coordinator

[Scott McLaughlin](#)

CARES Press Coordinator

[Elizabeth Napier-Bonvillain](#)

CARES Press Coordinator

[Marina Parha](#)

CARES Team Specialist

[Richard Pierce, Ph.D.](#)

CARES Team Specialist  
 Killifish Group Coordinator

[Alexander Priest](#)

CARES Team Specialist

[George Reclos](#)

CARES Team Specialist

[Mark Soberman](#)

CARES Team Specialist

[Greg Steeves](#)

CARES Exchange Editor

CARES Speaker

CARES Team Specialist

Cichlid Group Coordinator

Lake Victoria Region Regional Coordinator

[Klaus Steinhaus](#)

CARES Member Clubs

CARES Speaker

CARES Team Specialist

[Richard Stratton](#)

CARES Team Specialist

[Stephan Tanner, Ph.D.](#)

Loricariid Group Coordinator

[Michael Tobler, Ph.D.](#)

CARES Team Specialist

Livebearer Group Coordinator

South America Regional Coordinator

[David Tourle](#)

CARES Team Specialist

# The Aquarium Hobby CARES Preservation Program

## CONSERVATION PRIORITY LIST

**Technical Editor of Freshwater Fishes** Paul V. Loiselle, Ph.D.

**Conservation Priority List Coordinator** Claudia Dickinson

### CARES Conservation Priority List Regional Coordinators

**Madagascar** Paul V. Loiselle, Ph.D.

**Lake Malawi** Ad Konings

**Lake Tanganyika** Ad Konings

**Lake Victoria Region** Greg Steeves

**West Africa** Anton Lamboj, Ph.D.

**Central America** Juan Miguel Artigas Azas

**South America** Hernán López-Fernández, Ph.D.

### CARES Conservation Priority List Group Coordinators

**Anabantidae (climbing gouramis)** Anton Lamboj, Ph.D.

**Characidae (tetras)** Mike Hellweg

**Cichlidae (cichlids)** Juan Miguel Artigas Azas  
Ad Konings  
Anton Lamboj, Ph.D.  
Paul V. Loiselle, Ph.D.  
Greg Steeves  
Hernán López-Fernández, Ph.D.

**Cyprinidae (minnows and carps)** Mike Hellweg

**Goodeidae (splitfins)** John Lyons, Ph.D.

**Killifish** Richard Pierce, Ph.D.

**Poeciliidae (livebearers)** Michael Tobler, Ph.D.

**Loricariidae (armoured catfish)** Stephan Tanner, Ph.D.

**Melanotaeniidae (rainbowfish)** Ken Boorman

Gary Lange

## Attention CARES Member Clubs!

### Data Submission Deadline is April 30!

Please be sure to submit your CARES Club Species Data reports through the contact form on the CARES website at [http://caresforfish.org/?page\\_id=1076](http://caresforfish.org/?page_id=1076) or you can email them to [claudiadickinsoncares@gmail.com](mailto:claudiadickinsoncares@gmail.com).

If you need a CARES Club Data Report template please email Claudia at [claudiadickinsoncares@gmail.com](mailto:claudiadickinsoncares@gmail.com).

All fish entered on or after 1/27/17 must be registered by the hobbyist through the CARES website. Your CARES Club Liaison will receive notification from CARES of verification and acceptance of each registration. All fish entered prior to 1/27/17 will be grandfathered into the CARES Program.

Your club data reports are critical to our collective CARES efforts and one of the few requirements of maintaining CARES club membership.

Thank you so much!

The CARES Team

The screenshot shows an Excel spreadsheet with the following structure:

	A	B	C	D	E	F	G
1	<b>CARES Member</b>	<b>CARES Species</b>	<b>Verified Y/N</b>	<b>Source</b>	<b>Active Breeding Colony Y/N</b>	<b>Acquisition Date</b>	<b>Registrati</b>
2							
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20							
21							
22							
23							

## Breeders Exchange Verified Cares Species

Jack Jeansonne	Austin, TX.	jkjeansonne@yahoo.com
<i>Ameca splendens</i>	1"	4.00 each
<i>Chindongo saulosi</i>	1" - 1.5"	8.00 each
Jim Valenzuela	New Iberia, LA	watermanmbu@hotmail.com
<i>Cyrtocara moorii</i>	1"+	5.00
<i>Neochromis omnicaeruleus</i>		
-Makobe Island II	1"+	7.00
<i>Chindongo demasoni</i>	1"+	6.00
Jay and Carol Geiler	Stanwood, WA	jay-carol@wavecable.com
<i>Enantiopus</i> sp. 'kilesa'	1" - 1.25"	15.00
Marc Schnell	Watsonville, CA	westcoastcichlids@ hotmail.com
<i>Haplochromis</i> sp. 'KK Beach'	1.5"	7.00
Greg Steeves	Canyon Lake, TX	gasteeves@gmail.com
<i>Xenotoca eisini</i>	Adult pairs	20.00
Charles Credeur	Lafayette, LA.	charles58c@bellsouth.net
<a href="https://www.facebook.com/BayouCichlids/">https://www.facebook.com/BayouCichlids/</a>		
<i>Pundamilia nyererei</i>	.75 - 1"	6.00
Python Island		
Kevin Bauman	Columbus, OH.	kbauman2@att.net
<i>Harpagochromis</i> sp.	.75"	3.00
'orange rock hunter'		
<i>Prognathochromis perrieri</i>	.75"	3.00
<i>Yssichromis pyrrhocephalus</i>	.75"	3.00
<i>Harpagochromis</i> sp.		
'golden duck'	.75"	3.00
<i>Enterochromis paropius</i>	.75"	3.00
<i>Haplochromis</i> sp. 'KK Beach'	.75"	3.00



## Verified Cares Species

Michael Liu

*Paralabidochromis* sp. 'fire'

*Neochromis rufocaudalis*

- Saa Nane Island

*Yssichromis piceatus*

Florence, MA.

fry .25 - .5"

fry 25 - .5"

fry 25 - .5"

mike@berkshiredesign.com

2.00 each

5.00 each

5.00 each

# Add the final notch to your belt!



Distinguish yourself as an advanced hobbyist by keeping and breeding a CARES endangered fish Today!

Give back to the hobby that has given so much to you!

Together we can and WILL make a difference! ❤️

[caresforfish.org](http://caresforfish.org)



## Non-verified Cares Species

<b>Josh Cunningham</b>	<b>Detroit, MI.</b>	<b>josh@cunninghamcichlids.com</b>
<a href="https://www.facebook.com/CunninghamCichlids">https://www.facebook.com/CunninghamCichlids</a>		
<i>Paralabidochromis sauvagei</i>	1"	9.00 or 4/35.00
Mwanza Gulf		
<b>Charles Credeur</b>	<b>Lafayette, LA.</b>	<b>charles58c@bellsouth.net</b>
<a href="https://www.facebook.com/BayouCichlids/">https://www.facebook.com/BayouCichlids/</a>		
<i>Cyrtocara moorii</i>	1 - 1.5"	6.00
	2"	8.00
<i>Aulonocara</i> sp. 'Lwanda'	1.5 - 2"	9.00
	2" male	20.00
<b>Dave's Rare Aquarium Fish</b>	<b>San Antonio, TX.</b>	<b>daves@davesfish.com</b>
<a href="http://www.davesfish.com/">http://www.davesfish.com/</a>		
<i>Aulonocara baenschi</i>	juveniles	9.00
Nkhomo Reef		
<i>Aulonocara kandeense</i>	juveniles	9.00
Kande Island		
<i>Aulonocara maylandi</i>	juveniles	8.00
<i>Aulonocara</i> sp. 'Lwanda'	juveniles	10.00
Hai Reef		
<i>Chindongo demasoni</i>	juveniles	9.00
Pombo Rocks		
<i>Chindongo saulosi</i>	juveniles	9.00
Taiwanee Reef		
<i>Copadichromis</i> sp.	juveniles	12.00
'virginalis gold' Nkanda		
<i>Cyrtocara moorii</i>	juveniles	8.00
<i>Danakilia</i> sp. 'shukoray'	juveniles	39.00 (35.00 for 6 or more)
<i>Etia nguti</i> Mamfue River	juveniles	9.00
<i>Paretroplus kieneri</i>	juveniles	12.00 (10.00 for 6 or more)
<i>Protomelas</i> sp.	juveniles	8.00
'steveni taiwan' Taiwanee Reef		
<i>Pundamilia</i> sp. 'blue bar'	juveniles	8.00
Hippo Point		
<i>Pundamilia</i> sp. 'red flank'	juveniles	10.00
Nansio Island		
<i>Xystichromis phytophagus</i>	juveniles	10.00
<i>Xystichromis</i> sp. 'blue fire fin'	juveniles	8.00
<i>Xystichromis</i> sp. 'flameback'	juveniles	9.00

## Non-verified Cares Species

Dave's Rare Aquarium Fish <a href="http://www.davesfish.com/">http://www.davesfish.com/</a>	San Antonio, TX.	daves@davesfish.com
<i>Xystichromis</i> sp. 'kyoga flameback' Lake Nawampasa	juveniles	10.00
Caroline Eppler	Northern Virginia	Caroline.eppler@gmail.com
<i>Xystichromis</i> phytophagus	1"	8.00

## Non-CARES Species

David Soares	Sisters, OR.	apistodave@bendcable.com
<i>Apistogramma cacatuoides</i> triple red	Pair	30.00
<i>Apistogramma cacatuoides</i> Double red	Pair	20.00
<i>Apistogramma agassizi</i> Fire red	Pair	40.00
<i>Nanacara aurecephalus</i> Sourounou	Pair	50.00
Jim Valenzuela	New Iberia, LA	watermanmbu@hotmail.com
<i>Oreochromis esculentus</i>	1"+	6/20.00
<i>Neochromis omnicaeruleus</i> Makobe Island II	1-2"	7.00
<i>Thoracochormis</i> sp. 'flavententis'	1-2"	10.00
<i>Astatotilapia</i> sp. 'Chizumulu'	1-2"	5.00
Josh Cunningham <a href="https://www.facebook.com/CunninghamCichlids">https://www.facebook.com/CunninghamCichlids</a>	Detroit, MI.	josh@cunninghamcichlids.com
<i>Ctenochromis horei</i> young breeder group	2.5"	16 for 225.00
<i>Cyathopharynx foai</i> Kachese F1	2.5 - 2.75"	20.00 each or 5/90.00
<i>Lamprologus callipterus</i>	1.5"	13.00 each or 5/55.00
<i>Limnotilapia dardenni</i>	1.5"	12.00 each or 5/45.00
<i>Tropheus</i> sp. 'bemba'	Breeders 7"+ 1m/6f	175.00
F1	2.5" Breeders grp of 30	450.00

## Non-CARES Species

Charles Credeur	Lafayette, LA.	charles58c@bellsouth.net
<a href="https://www.facebook.com/BayouCichlids/">https://www.facebook.com/BayouCichlids/</a>		
<i>Cynotilapia zebroides</i>	1 - 1.5"	5.00
Afra Cobue		
<i>Neolamprologus pulcher</i>	1 - 1.5"	6.00
'daffodil'		
<i>Labidochromis caeruleus</i>	2"	4.00
<i>Nimbochromis venustus</i>	1 - 1.25"	4.00
<i>Aulonocara stuartgranti</i>	1 - 1.25"	5.00
'Chinuni'	1 - 1.25" male	8.00
	2 - 2.5" male	15.00
<i>Aulonocara stuartgranti</i>	1 - 1.5"	7.00
'Usisya Flavescent' F2		
<i>Metriaclima elongatus</i>	1 - 1.5"	6.00
'Chailosi' F2		
<i>Pseudotropheus polit</i>	1"	5.00
<i>Pseudotropheus sp.</i>	.75"	6.00
'williamsi north' Makonde		
<i>Julidochromis regani</i> Kipili	1"	8.00
<i>Sciaenochromis fryeri</i>	.75 - 1"	4.00

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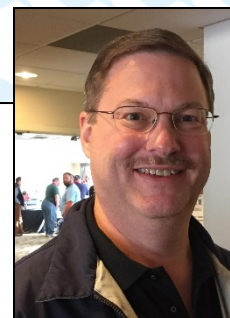
## Wanted

Melissa Bukowski

mjbukows@gmail.com

*Malpulutta kretseri*

*Malpulutta hongkongensis*



## CARES and the American Livebearer Association

Mike Hellweg

The Missouri Aquarium Society will be hosting the American Livebearer Association (ALA) convention coming up on May 4—7, 2017 in St. Louis, Missouri. ALA members are heavily involved in species maintenance and preservation. They encourage members to work with various species at risk, especially Mexican livebearers, many of which are now extinct in the wild due to habit loss from water pumping from the aquifer for human use which lowered the water table to the point where there is no aboveground water in some areas, introduced game and food species such as black bass and tilapia, and pollution. Many people literally see waterways as convenient places to do everything from washing a vehicle to changing their fluids directly into the water to being a convenient place to dump garbage and raw sewage.

Many species maintained by ALA members are now in existence only because ALA members have saved them, such as most of the members of the genera *Skiffia* and *Characodon*, several *Xiphophorus* species, and many others—all without a dime of support from any large organization or government entity. Individual members maintain colonies by collection location, ensuring that the specific genes for various populations are maintained. At least one species, *Zoogoneticus tequila*, which was extirpated from the wild, is now being re-introduced into its former habit with stock from hobbyists.

ALA members support the former Fish Ark Mexico with its lab at the University of Morelia, where most of the endangered and threatened Mexican species are maintained in hopes of someday returning at least some of them to the wild. At the very least, the species and their unique genes are being preserved for future generations which will hopefully learn from our mistakes and be better stewards of the Mexican habitat than we have been. ALA members contribute money, equipment, food, and even their time when on vacation down in Mexico.

At the ALA convention the North American Goodeid Working Group (NAGWG) will host its annual meeting on Friday evening, after which there will be an auction of goodeids donated by members. Many of these are CARES species, and many of them will be available nowhere else! In addition, there will many other options to obtain new breeding stock throughout the weekend. On Friday there will be a box sale after the talks in the evening which will feature many species raised by members. There will be a special fish sale on Saturday which will feature some species that are being brought in specifically for this special sale. In addition, there will be raffles to benefit both the convention and the ALA Species Maintenance Program, room sales, and an all day auction on Sunday which will also feature the results of the breeding efforts of many of the ALA members.

## CARES Area of Concern: Lake Malawi by Pam Chin



**Lake Malawi National Park, the scene of debate over the allowance of oil drilling within its boundaries.**

### Priority List

The list of Malawi cichlids at risk is growing longer. The open water cichlids and the cichlids that are found on the sand are in the most jeopardy. In June of 2016 I was lucky enough to spend two weeks in the Malawi National Park at the Maleri Islands. It was truly a bittersweet trip. I couldn't believe how many fishermen were on the lake. They were dominating the waters around the islands, pulling their nets a few meters away from the shoreline. It was a heartbreaker.

For years I have thought that Lake Malawi was more stable than other cichlid locations, like Lake Victoria for an example. I have seen very little pollution around Lake Malawi, only when in more populated areas. I have drunk the water from the lake for weeks at a time. But, it is changing now, and this is why CARES is so important. It is so wonderful to see aquarists who are willing to main-

tain species so future hobbyists will have access to these Malawi Cichlids.

### Environmental Issues

My beloved Lake Malawi is on the verge of several environmental disasters. On this trip I had to face a few facts. Obviously, I was in denial even though I could see many things that have changed since my first trip to the 'Warm Heart of Africa.'

The people are starving.

The fishermen are prominent on the lake and cranky.

The Lake level is dropping.

They are in a deep drought.

They want to drill for oil, even in the National Park.

They want to send water from Senga Bay to the capital city of Lilongwe, 120 miles away.



**Chidunga Rocks: Malawi is in a severe drought and the lake level is down, lower than it has been in years. Chidunga Rocks is usually below the waterline. Photograph by Pam Chin.**

These are just a few of the issues at hand. Sadly, Malawi is the poorest country on this earth and the population has increased substantially in the last 50 years (3.5 million in 1960 versus over 17 million in 2016). Their government is so corrupt that worldwide aid to this country has dried up and they have been forced to sell their minerals for a fraction of their value.

### **Extinctions**

As of today there are only a few species in Lake Malawi that are CEW (Extinct in the Wild), but there are many that are CVU (Vulnerable), CEN (Endangered), or CCR (Critically Endangered). There are many Lake Malawi cichlids that are only found at one location so if anything happens at that one place, that particular species could be wiped out.

The oil drilling is scary and it is going to happen. However, in the meantime the population is starving and I believe they are going to eat all the fish in the lake. As they overfish, cichlid species that are found in only one location are doomed. They have netted so many of the open water and sand dwelling cichlids south of the Maleri Islands that algae is just floating in the water, there are no fish to eat it. As the algae blocks the sunlight the water becomes dark and no fish will occupy these areas.

It is important that we work on maintaining the vulnerable, endangered, and critically endangered. We need to make sure they are established in the hobby.

### Species Recovery

In Lake Malawi we should all be most proud of the *Chindongo saulosi* project. This was definitely a group endeavor. Spearheaded by Ad Konings with the **Stuart Grant Cichlid Conservation Fund** and some help from the **American Cichlid Association's Paul V. Loiselle Conservation Fund**, they were able to finance the breeding of *C. saulosi* in captivity at the lake, and release them back on to Taiwanea Reef, the only place they are found in the lake. I was determined to be in Malawi for the first release, and so glad that I was able to see it firsthand. Many thanks to Larry Johnson and the cichlid hobbyists that he takes on tour to Lake Malawi. They have helped release *C. saulosi* the last three years.

In this case, ornamental fish collectors had critically

endanger this isolated population by over-collecting. Everyone got the word out not to buy wild *C. saulosi*. CARES jumped on it and soon hobbyists were maintaining the species as well. The population has not come completely back at Taiwanea Reef, but it looks promising and now this species is well established in the hobby.

However, you can't let your guard down. Just when I think we are getting ahead of it, I was devastated to see wild *C. saulosi* available in Europe the other day. We can't take our eye off the ball or in this case the cichlids.

### Species survival within Lake Malawi

In Lake Malawi the mbuna (rock dweller) types that occupy the rocks along the shorelines are at a much better advantage to avoid the nets.



**Chidunga Rocks: due to over-fishing, the water is filled with floating algae. Once it was very clear here, but now it is getting darker and darker. Photograph by Pam Chin.**





*Melanochromis chipokae*: CEN (Endangered). Photograph by Ad Konings.

However, they won't be able to avoid oil spills or mining leaks, which typically wreak havoc at the shoreline.

Please remember the cichlids that are in the most danger are the sand dwelling fish, such as; *Aulonocara*, *Lethrinops*, *Cyrtocara*, *Otopharynx*, *Placidochromis*, *Taeniolethrinops*, and the open water fish, such as *Champsocromis*, *Dimidiochromis*, and *Mylochromis* as all are easily taken with nets. Learn more about them at the CARES website.

I am not giving up and while I may have to reset my goals for saving all the fish in Lake Malawi, there is some positive news. The **Stuart Grant Cichlid Conservation Fund** is financing the breeding of *Melanochromis chipokae* lakeside. Soon we will be able to release these where they are naturally found in the lake and hopefully boost up the population that has been compromised.

### Parting Thoughts—Malawi

Although I have tried many times, I can't explain how beautiful, how big, and how blue Lake Malawi is! There are over 850 species of cichlids. There is

no other body of freshwater that can claim such diversity in the fish populations.

The status of the Malawi National Park is in peril. They may lose their ranking of a World Heritage Site because they want to drill for oil in the middle of the park. The combination of overfishing and drilling/mining in this part of the Lake is what has me worried about the future.

No one has said it better than Paul Loiselle, "It is payback time."

Like all vulnerable cichlid sites worldwide, Malawi too needs help. There are many ways to support cichlids that are at risk. You can maintain a species, spread the word, and share your knowledge. It is also important to donate to conservations funds. Many are aware of the big ones, but your local club may have a conservation fund as well.

I know I can't save all the fish in Malawi by myself, but if we work together the possibilities are endless! I thank you and the cichlids thank you!



*Labeotropheus fulleborni* at West Thumbi Island, Malawi. Photograph by Pam Chin.

### Conservation Funds

American Cichlid Association  
 Paul V. Loisel Conservation Fund  
[www.cichlid.org](http://www.cichlid.org)

Project Piaba  
<http://projectpiaba.org>

Stuart M. Grant Conservation Fund  
<http://cichlidpress.com/smgfund/index.html>

Babes In The Cichlid Hobby  
[http://cichlid.org/?page\\_id=1426](http://cichlid.org/?page_id=1426)



Many mbuna, West Thumbi Island, near a place called the 'Aquarium.' Malawi National Park.



### **The American Cichlid Association 2017 Convention**

Every July the American Cichlid Association hosts a most fabulous convention not to be missed! It is here that you will witness the most spectacular collection of the finest cichlids to be found. The yearly convention is an action-packed, non-stop weekend filled with world-renowned speakers, workshops, vendors, raffles, specialized Study Group meetings and incredible side trips, all culminating in Sunday's magnificent cichlid auction. Most importantly, you will always find the warmth and fellowship of being amongst fish, friends, and fun!

Conservation highlights will include numerous speakers such as CARES Team Specialists Pam Chin and Juan Miguel Artigas Azas, the CARES Best In Show Award, the Guy Jordan Silent Auctions of conservation priority fish going on throughout the event, the celebrated Babes In The Cichlid Hobby Friday night auction, sure to have many CARES species, and the bounty of fish sales from individuals and Sunday's auction.

The members of the **Michigan Cichlid Association** have been working diligently to host the most exceptional convention ever for 2017! If you have yet to do so, start making your plans to attend this extraordinary event at the lovely **Sheraton Detroit Novi Hotel in Novi, Michigan** on **July 13-16, 2017**. Please be sure to register today at: <http://acaconvention2017.com/>. We can't wait to see you in Michigan in July!



Some 'prestigious' members of the New England Cichlid Association with the CARES Press Team.

### **CARES and the NECA—The Role of the Local Club**

Founded in 2004, CARES has experienced a remarkable evolution from humble beginnings. The concept, however, has remained the same. This is to utilize the aquatic hobby to concentrate efforts on maintaining species that are threatened in their native waters. The one aspect of CARES that perhaps speaks volumes of what it stands for is that those involved are truly all about species survival and are trying to provide an avenue to give the fish the best chance at continued existence. CARES is not exclusive in this endeavor. Any program that shares a similar goal is encouraged. CARES does its best to provide the tools to make this possible for those who would like to participate.

We have found that the most effective method of reaching the hobbyist is through partnerships with local societies. If a hobbyist cares enough to join a club, most certainly he or she already has a greater motive to care for aquatic animals than the casual hobbyist who exclusively procures fish from box stores. Most of the members of organizations possess multiple aquarium setups and, as such, are more apt to have the means of dedicating space to long-term species survival.

There are hundreds of fishes that may not be around long enough for the next generation to enjoy. With this in mind, several organizations are taking procuring captive stock before these creatures disappear forever as a mission statement. No other organization, be it a national, regional, or local society, is doing more to collect, maintain, and propagate endangered species than the New England



Cichlid Association. In all reality, this group has managed to find fish species through a worldwide network that they have created. Once in possession of these fishes, they are making them available to American hobbyists deemed sincere in their conservation efforts and willingness to do all they can to reproduce and spread the animals on to others. The NECA had embraced the CARES philosophy and is well on the way to becoming one of the most active CARES organization.

The CARES organization has recently released the much awaited new website. This is a one stop site for everything CARES related. It can be found at [www.caresforfish.org](http://www.caresforfish.org). An exciting aspect of this new website is the ability to submit CARES entries directly on the site. It is a very easy process and entry approval time has been cut drastically. In many cases, a CARES submission can be approved, if all relevant information is provided, in as little as a day. This is a huge improvement over the weeks or months that it used to take. Be sure to stop by and explore the website for great content.

Another exciting CARES development is the addition of a CARES publication called The CARES Exchange. The original concept of this was to provide a location for CARES breeders to make their stock available to program participants looking for fishes to work with. It too has evolved into a service for people buying and selling all aquarium fishes. The CARES Exchange also contains relevant articles related to the conservation and preservation concept.

CARES Program Administrators are available to assist with any questions you may have. The future of CARES is exciting! Keeping captive stocks of fishes that are losing their natural habitats is extremely important for numerous reasons. Among the most meaningful reasons is to ensure the species exists should reintroduction become feasible in the future. Even if maintaining captive stocks ensures that the fish are available for the next generation to enjoy, this is a much better scenario than only having old photographs to pass on. Collectively, we can make a real difference.

The CARES Priority List April 15, 2017

## Priority list: Adrianichthyidae — Ricefishes

Species	Classification	Assessment	Authority
<i>Oryzias celebensis</i>	VU	Aug-1996	IUCN
<i>Oryzias marmoratus</i>	VU		IUCN
<i>Oryzias matanensis</i>	VU		IUCN
<i>Oryzias nigrimas</i>	VU		IUCN
<i>Oryzias orthognathus</i>	EN		IUCN
<i>Oryzias profundicola</i>	VU		IUCN

## Priority list: Anabantidae — Climbing gouramies

Species	Classification	Assessment	Authority
<i>Belontia signata</i>	CWU		PVL
<i>Betta albimarginata</i>	CVU	Mar-09	AL
<i>Betta brownorum</i>	CEN		PVL
<i>Betta burdigala</i>	VU	Aug-1996	<a href="#">IUCN</a>
<i>Betta channoides</i>	CVU	Mar-09	AL
<i>Betta chini</i>	VU		IUCN
<i>Betta chloropharynx</i>	VU		IUCN
<i>Betta coccina</i>	CEN		PVL
<i>Betta foerschi</i>	CEN		PVL
<i>Betta hipposideros</i>	VU		IUCN
<i>Betta livida</i>	EN		IUCN
<i>Betta macrostoma</i>	VU		IUCN
<i>Betta miniopinna</i>	CR		IUCN
<i>Betta persephone</i>	CR		IUCN
<i>Betta pi</i>	CVU	May-12	AL
<i>Betta rutilans</i>	CEN		PVL
<i>Betta schalleri</i>	CEN		PVL
<i>Betta simplex</i>	CR	May-12	IUCN
<i>Betta spilotogena</i>	CR		IUCN
<i>Betta tomi</i>	VU		IUCN
<i>Betta tussyae</i>	CEN		PVL
<i>Betta uberis</i>	CCR	May-12	AL
<i>Macropodus hongkongensis</i>	CVU	May-12	AL
<i>Malpulutta kretseri</i>	CEN		PVL

Species	Classification	Assessment	Authority
<i>Parosphromenus alleni</i>	CVU	Sep-09	AL
<i>Parosphromenus anjunganensis</i>	CVU	Sep-09	AL
<i>Parosphromenus bintan</i>	CVU	Sep-09	AL
<i>Parosphromenus deissneri</i>	CVU	Sep-09	AL
<i>Parosphromenus filamentosus</i>	CVU	Sep-09	AL
<i>Parosphromenus harveyi</i>	EN		IUCN
<i>Parosphromenus linkei</i>	CVU	Sep-09	AL
<i>Parosphromenus nagyi</i>	CVU	Sep-09	AL
<i>Parosphromenus opallios</i>	CVU	Sep-09	AL
<i>Parosphromenus ornatICAUDA</i>	CVU	Sep-09	AL
<i>Parosphromenus pahuensis</i>	CVU	Sep-09	AL
<i>Parosphromenus paludicola</i>	CVU	Sep-09	AL
<i>Parosphromenus parvulus</i>	CVU	Sep-09	AL
<i>Parosphromenus quindecim</i>	CVU	Sep-09	AL
<i>Parosphromenus rubrimontis</i>	CVU	Sep-09	AL
<i>Parosphromenus sumatranus</i>	CVU	Sep-09	AL
<i>Parosphromenus tweediei</i>	CVU	Sep-09	AL

Priority list: Aplocheilidae — Killifishes

Species	Classification	Assessment	Authority
<i>Pachypanchax arnoulti</i>	VU	Jun-2006	<a href="#">IUCN</a>
<i>Pachypanchax omalonotus</i>	CVU		PVL
<i>Pachypanchax patriciae</i>	CVU		PVL
<i>Pachypanchax sakaramyi</i>	CR		IUCN
<i>Pachypanchax sparksorum</i>	CVU		PVL
<i>Pachypanchax varatraza</i>	CVU		PVL
<i>Pachypanchax</i> sp. ‘analava’	CVU		PVL
<i>Pachypanchax</i> sp. ‘loza’	CVU		PVL
<i>Pachypanchax</i> sp. ‘mahamasina’	CVU		PVL
<i>Pachypanchax</i> sp. ‘sofia’	CCR	Jul-2009	PVL



## Priority list: Bedotiidae — Madagascan rainbowfish

Species	Classification	Assessment	Authority
<i>Bedotia albomarginata</i>	EN	Jun-2016	<a href="#">IUCN</a>
<i>Bedotia geayi</i>	VU		IUCN
<i>Bedotia marojejy</i>	VU		IUCN
<i>Bedotia masoala</i>	VU		IUCN
<i>Bedotia tricolor</i>	CR		IUCN
<i>Bedotia</i> sp. ‘ankavia-ankavanana’	VU		IUCN
<i>Bedotia</i> sp. ‘bemarivo’	VU		IUCN
<i>Bedotia</i> sp. ‘betampona’	VU		IUCN
<i>Bedotia</i> sp. ‘lazana’	VU		IUCN
<i>Bedotia</i> sp. ‘mahanara’	VU		IUCN
<i>Bedotia</i> sp. ‘manombo’	CR	May-2012	IUCN
<i>Bedotia</i> sp. ‘namorona’	VU		IUCN
<i>Bedotia</i> sp. ‘nosivola’	VU		IUCN
<i>Bedotia</i> sp. ‘sambava’	CR		IUCN
<i>Rheocles alaotrensis</i>	EN	Jul-2016	<a href="#">IUCN</a>
<i>Rheocles derhami</i>	CCR		PVL
<i>Rheocles lateralis</i>	CVU		PVL
<i>Rheocles pellegrini</i>	CVU		PVL
<i>Rheocles sikorae</i>	CEN		PVL
<i>Rheocles vatosoa</i>	VU		IUCN
<i>Rheocles wrightae</i>	EN		IUCN
<i>Rheocles</i> sp. ‘antainambalana’	CVU		PVL
<i>Rheocles</i> sp. ‘ambatovy’	CCR		PVL

## Priority list: Characidae — Tetras

Species	Classification	Assessment	Authority
<i>Arnoldichthys spilopterus</i>	CEN		PVL
<i>Rachoviscus crassiceps</i>	CEN		PVL
<i>Rachoviscus graciliceps</i>	CEN		PVL

## Priority list: Cichlidae – Cichlids

Species	Classification	Assessment	Authority
<a href="#">Alcolapia alcalica</a>	EN	Sep-08	<a href="#">IUCN</a>
<a href="#">Alcolapia grahami</a>	VU	Jun-08	<a href="#">IUCN</a>
Alcolapia latilabris	CVU	Jun-08	AL
Alcolapia ndalalani	CVU	Jun-08	AL
Allochromis welcommei	CCR	Jan-16	GS
Altolamprologus calvus 'yellow' Nkamba Bay	CCR		<a href="#">AK</a>
<a href="#">Amatitlania altoflava</a>	CVU	Jan-11	PVL
<a href="#">Amatitlania myrnae</a>	CEN	Jan-11	PVL
<a href="#">Amatitlania nanolutea</a>	CVU	Jan-11	PVL
<a href="#">Amatitlania septemfasciata</a>	CVU	Jan-11	PVL
Amphilophus bussingi	CEN		PVL
Amphilophus istlanus	CVU		PVL
Amphilophus lyonsi	CCR		PVL
Amphilophus rhytisma	CEN		PVL
Archocentrus spinosissimus	CVU		PVL
Astatotilapia aeneocolor	VU		IUCN
Astatotilapia barbarae	CR	May-12	IUCN
Astatotilapia brownae	CVN	Jan-16	GS
Astatotilapia desfontainii	CCR	Jan-16	GS
Astatotilapia flavijosephi	CVU		PVL
Astatotilapia latifasciata	CEN	Jan-16	GS
Astatotilapia sp. 'dwarf bigeye scraper'	CR		IUCN
Astatotilapia sp. 'shovelmouth'	EN		IUCN
Astatotilapia sp. 'thick skin'	CVU	Sep-12	GS
Astatotilapia tweddlei	VU		IUCN
Astatotilapia velifer	VU		IUCN
Aulonocara baenschi	CEN	May-12	<a href="#">AK</a>
Aulonocara guentheri	CEN	May-12	<a href="#">AK</a>
Aulonocara kandeense	VU	May-12	IUCN
Aulonocara maylandi	VU	May-12	IUCN
Aulonocara nyassae	CEN	May-12	<a href="#">AK</a>
Aulonocara sp. 'lwanda'	CEN	May-12	<a href="#">AK</a>
Aulonocara sp. 'pyramid'	CEN	May-12	<a href="#">AK</a>

<i>Benitochromis nigrodorsalis</i>	CVU	Jul-12	AL
<i>Benitochromis ufermanni</i>	CVU	Jul-12	AL
<i>Cardiopharynx schoutedeni</i>	CVU	May-12	<a href="#">AK</a>
<i>Champsochromis spilorhynchus</i>	CEN	May-12	<a href="#">AK</a>
<i>Chetia brevis</i>	EN	May-12	IUCN
<i>Chindongo saulosi</i>	CEN	Nov-16	<a href="#">AK</a>
<i>Copadichromis ileisi</i>	CEW	May-12	<a href="#">AK</a>
<i>Copadichromis molto</i>	CEN	May-12	<a href="#">AK</a>
<i>Copadichromis pleurostigma</i>	CEN	May-12	<a href="#">AK</a>
<i>Copadichromis pleurostigmoides</i>	CEN	May-12	<a href="#">AK</a>
<i>Copadichromis</i> sp. ‘firecrest mloto’	CEW	May-12	<a href="#">AK</a>
<i>Copadichromis</i> sp. ‘virginialis gold’	CEN	May-12	<a href="#">AK</a>
<i>Coptodon bakossiorum</i>	CR	Jul-14	IUCN
<i>Coptodon bemini</i>	CR	Jul-14	IUCN
<i>Coptodon bythobates</i>	CR	Jul-14	IUCN
<i>Coptodon deckerti</i>	CR	Jul-14	IUCN
<i>Coptodon flavus</i>	CR	Jul-14	IUCN
<i>Coptodon guttuosus</i>	CR	Jul-14	IUCN
<i>Coptodon imbriferus</i>	CR	Jul-14	IUCN
<i>Coptodon kottae</i>	EN	Jul-14	IUCN
<i>Coptodon snyderae</i>	CR	Jul-14	IUCN
<i>Coptodon spongotroktis</i>	CR	Jul-14	IUCN
<i>Coptodon thysi</i>	CR	Jul-14	IUCN
<i>Corematodus shiranus</i>	CEN	May-12	<a href="#">AK</a>
<i>Cyrtocara moorii</i>	CVU	May-12	<a href="#">AK</a>
<i>Danakilia</i> sp. ‘shukoray’	CVU	Jan-17	AL
<i>Dimidiochromis dimidiatus</i>	CVU	May-12	<a href="#">AK</a>
<i>Docimodus johnstonii</i>	CVU	May-12	<a href="#">AK</a>
<i>Enantiopus</i> sp. ‘kilesa’	CEN	Jan-16	<a href="#">AK</a>
<i>Enigmatochromis lucanusi</i>	CVU	Sep-09	AL
<i>Enterochromis coprologus</i>	CR	Jan-17	IUCN
<i>Enterochromis erythromaculatus</i>	EN	Feb-08	IUCN
<i>Enterochromis pariopus</i>	CEN	Jan-16	GS
<i>Enterochromis</i> sp. ‘blue obliquidens’	CEN	Jan-16	GS

Enterochromis sp. 'red back scraper'	CEW	Jan-16	GS
Etia nguti	CVU	Dec-08	AL
Etroplus canarensis	CVU	Dec-08	PVL
Haplochromis acidens	CVU		GS
Haplochromis annectidens	CR		IUCN
Haplochromis cyaneus	EN		IUCN
Haplochromis flavus	CEN		GS
Haplochromis guiarti	CR		IUCN
Haplochromis heusinkveldi	CR		IUCN
Haplochromis howesi	VU	May-12	IUCN
Haplochromis katavi	VU		IUCN
Haplochromis lividus	CVN	Jan-16	GS
Haplochromis sp. 'fine bar scraper'	CNT	Mar-09	GS
Haplochromis sp. 'kenya gold'	CEN	Mar-09	GS
Haplochromis sp. 'kk beach'	CVN	Jan-16	GS
Haplochromis sp. 'ruby'	CVU	Mar-09	GS
Haplochromis tanaos	CVU	Jan-17	GS
Haplochromis thereuterion	CEN	Jan-17	GS
Harpagochromis cavifrons	CCR	Feb-08	GS
Harpagochromis sp. 'golden duck'	CNT	Mar-09	GS
Harpagochromis sp. 'orange rock hunter'	CEW	Mar-09	GS
Harpagochromis vonlinnei	CR	Jan-17	IUCN
Hemichromis cristatus	CVU		PVL
Herichthys bartoni	VU		IUCN
Herichthys labridens	CVU	Jul-08	PVL
Herichthys minckleyi	VU		IUCN
Herichthys sp. 'cazones'	CVU	Feb-08	CRC
Hericythys steindachneri	NT	May-12	IUCN
Heterochromis multidentis	CNT	Oct-13	PVL
Hoplotilapia retrodens	CEW		GS
Katria katria	CVU		PVL
Konia dikume	CR	May-12	IUCN
Konia eisentrauti	CR	May-12	IUCN
Labrochromis ishmaeli	CEW		GS

<i>Lethrinops altus</i>	CVU	May-12	<a href="#">AK</a>
<i>Lethrinops macracanthus</i>	EN		IUCN
<i>Lethrinops macrophthalmus</i>	VU		IUCN
<i>Lethrinops micrentodon</i>	EN		IUCN
<i>Lethrinops microdon</i>	EN		IUCN
<i>Lethrinops oculatus</i>	VU		IUCN
<i>Lethrinops stridae</i>	EN		IUCN
<i>Limbochromis robertsi</i>	CVU	Jul-08	AL
<i>Lipochromis</i> cf. <i>parvidens</i> 'kyoga'	CEN	Mar-09	GS
<i>Lipochromis cryptodon</i>	CEN	Feb-08	GS
<i>Lipochromis maxillaris</i>	CEN	Mar-09	GS
<i>Lipochromis melanopterus</i>	CEN	Mar-09	GS
<i>Lipochromis microdon</i>	CEN	Mar-09	GS
<i>Lipochromis parvidens</i>	CEW	Mar-09	GS
<i>Lipochromis</i> sp. 'matumbi hunter'	CEW	Mar-09	GS
<i>Lipochromis</i> sp. 'nyererei pae- dophage'	CEN	Mar-09	GS
<i>Lipochromis</i> sp. 'two stripe white lip'	CEW	Mar-09	GS
<i>Lipochromis taurinus</i>	CVU	Mar-09	GS
<i>Lithochromis rubripinnis</i>	CCR		GS
<i>Lithochromis rufus</i>	CCR		GS
<i>Lithochromis xanthopteryx</i>	VU	May-12	IUCN
<i>Macrolepodus bicolor</i>	VU	May-12	IUCN
<i>Mbipia</i> cf. <i>lutea</i> 'crossbar'	CNT	Mar-09	GS
<i>Mbipia lutea</i>	VU	May-12	IUCN
<i>Mbipia</i> sp. 'porthole'	CNT	Jul-09	GS
<i>Mchenga conophoros</i>	CVU	May-12	<a href="#">AK</a>
<i>Mchenga flavimanus</i>	CEN	May-12	<a href="#">AK</a>
<i>Melanochromis chipokae</i>	CEN	May-12	<a href="#">AK</a>
<i>Myaka myaka</i>	CR	May-12	IUCN
<i>Mylochromis ensatus</i>	CVU	May-12	<a href="#">AK</a>
<i>Mylochromis gracilis</i>	CVU	May-12	<a href="#">AK</a>
<i>Mylochromis lateristriga</i>	CEN	May-12	<a href="#">AK</a>
<i>Mylochromis obtusus</i>	CEW	May-12	<a href="#">AK</a>
<i>Mylochromis</i> sp. 'torpedo elon- gate'	CEW	May-12	<a href="#">AK</a>

<i>Neochromis gigas</i>	VU		IUCN
<i>Neochromis greenwoodi</i>	CVU		GS
<i>Neochromis omnicaeruleus</i>	CVU	May-10	GS
<i>Neochromis rufocaudalis</i>	CVU	Jul-09	GS
<i>Neochromis simotes</i>	CCR		GS
<i>Neochromis</i> sp. 'madonna'	CNT	Mar-09	GS
<i>Neochromis</i> sp. 'unicuspid scraper'	CVU	Jan-17	GS
<i>Nyassachromis boadzulu</i>	CVU	May-12	<a href="#">AK</a>
<i>Nyassachromis breviceps</i>	CEW	May-12	<a href="#">AK</a>
<i>Nyassachromis</i> sp. 'mphanga'	CEN	May-12	<a href="#">AK</a>
<i>Ophthalmotilapia boops</i> 'blue neon' (Nkondwe Island)	CCR	Jan-16	<a href="#">AK</a>
<i>Oreochromis amphimelas</i>	EN		IUCN
<i>Oreochromis chunguruensis</i>	CR		IUCN
<i>Oreochromis hunteri</i>	CR		IUCN
<i>Oreochromis jipe</i>	CR		IUCN
<i>Oreochromis karomo</i>	CR		IUCN
<i>Oreochromis karongae</i>	EN		IUCN
<i>Oreochromis lidole</i>	EN		IUCN
<i>Oreochromis pangani</i>	CR		IUCN
<i>Oreochromis rukwaensis</i>	CEN	Feb-08	PVL
<i>Oreochromis squamipinnis</i>	EN		IUCN
<i>Oreochromis variabilis</i>	CR	May-12	IUCN
<i>Otopharynx selenurus</i>	CEN	May-12	<a href="#">AK</a>
<i>Otopharynx</i> sp. 'decorus jumbo'	CEN	May-12	<a href="#">AK</a>
<i>Otopharynx</i> sp. 'golden blue-face'	CEN	May-12	<a href="#">AK</a>
<i>Otopharynx</i> sp. 'silver torpedo'	CEN	May-12	<a href="#">AK</a>
<i>Otopharynx</i> sp. 'torpedo blue'	CEN	May-12	<a href="#">AK</a>
<i>Paralabidochromis beadlei</i>	CR		IUCN
<i>Paralabidochromis chilotes</i>	CVU	Feb-08	GS
<i>Paralabidochromis chromogynos</i>	VU	May-12	IUCN
<i>Paralabidochromis crassilabris</i>	CR	May-12	IUCN
<i>Paralabidochromis labiatus</i>	NT	Feb-08	IUCN
<i>Paralabidochromis plagiodon</i>	CVU	Jan-17	GS
<i>Paralabidochromis sauvagei</i>	CVU	Jul-09	GS

Paralabidochromis sp. 'fire'	CVU	Jan-16	GS
Paralabidochromis sp. 'red fin piebald'	CVU	Jul-09	GS
Paralabidochromis victoriae	CCR		GS
Paratilapia sp. 'betsiboka'	CEN		TECM
Paratilapia polleni	VU		IUCN
Paratilapia sp. 'betsileo highlands'	CEN		TECM
Paratilapia sp. 'andapa'	CEN		TECM
Paratilapia sp. 'east coast small spot'	CVU		PVL
Paratilapia sp. 'southwest'	CCR		TECM
Paratilapia sp. 'vevembe'	CR		IUCN
Paratilapia typus	VU		IUCN
Paretroplus kieneri	VU		IUCN
Paretroplus cf. kieneri 'Sofia drainage'	CEN		TECM
Paretroplus dambabe	EN		IUCN
Paretroplus damii	CVU		TECM
Paretroplus maculatus	CR		IUCN
Paretroplus maromandia	CVU		TECM
Paretroplus menarambo	CR		IUCN
Paretroplus nourissati	CEN		TECM
Paretroplus polyactis	VU		IUCN
Paretroplus sp. 'dridrimena'	VU		IUCN
Paretroplus sp. 'Lake amparihindrana'	CCR		TECM
Paretroplus sp. 'giant lamena'	CVU		TECM
Paretroplus sp. 'ventitry'	VU		IUCN
Paretroplus tsimoly	CVU		TECM
Pelvicachromis sacrimontis	CVU	Sep-09	AL
Pelvicachromis silviae	CVU	Jul-14	AL
Petrochromis sp. 'red'	CVU	Jan-16	<a href="#">AK</a>
Placidochromis longimanus	CVU	May-12	<a href="#">AK</a>
Placidochromis phenochilus	CVU	May-12	<a href="#">AK</a>
Placidochromis sp. 'electra blue'	CVU	May-12	<a href="#">AK</a>
Placidochromis sp. 'mbamba'	CEN	May-12	<a href="#">AK</a>
Placidochromis sp. 'phenochilus tanzania'	CVU	May-12	<a href="#">AK</a>
Platytaeniodus degeni	CEW		GS

Platytaeniodus sp. 'red tail sheller'	CVU	Mar-09	GS
Prognathochromis argenteus	CR	Feb-08	IUCN
Prognathochromis bayoni	CCR	Feb-08	GS
Prognathochromis perrieri	CEW		GS
Prognathochromis sp. 'silver stiletto'	CNT	Mar-09	GS
Protomelas sp. 'mbenji thick-lip'	CVU	May-12	<a href="#">AK</a>
Protomelas sp. 'steveni taiwan'	CVU	May-12	<a href="#">AK</a>
Psammochromis aelocephalus	CR	May-12	IUCN
Psammochromis riponians	CVU	Jul-09	GS
Pseudotropheus demasoni	VU	May-12	IUCN
Ptychochromis curvidens	CVU		TECM
Ptychochromis grandidieri	CVU		TECM
Ptychochromis inornatus	EN		IUCN
Ptychochromis insolitus	CCR		TECM
Ptychochromis loisellei	CVU		TECM
Ptychochromis makira	CVU		PVL
Ptychochromis oligacanthus	CVU		TECM
Ptychochromis sp. 'mananara'	CVU		TECM
Ptychochromis sp. 'tarantsy'	CVU		TECM
Ptychochromoides betsileanus	CR		IUCN
Ptychochromoides vondrozo	CR		IUCN
Ptyochromis fisheri	CVU	Jul-09	GS
Ptyochromis sp. 'salmon'	CVU	Jul-09	GS
Pundamilia igneopinnis	EN		IUCN
Pundamilia macrocephala	VU	May-12	IUCN
Pundamilia nyererei	CNT		GS
Pundamilia pundamilia	CVU	Jul-09	GS
Pundamilia sp. 'black widow'	CVU	Jan-16	GS
Pundamilia sp. 'blue bar'	CVU	Jul-09	GS
Pundamilia sp. 'red flank'	CVU	May-12	GS
Pungu maclareni	CR	May-12	IUCN
Pyxichromis orthostoma	CEN		GS
Sarotherodon caroli	CR	May-12	IUCN
Sarotherodon linnellii	CR	May-12	IUCN



<i>Sarotherodon lohbergeri</i>	CR	May-12	IUCN
<i>Sarotherodon steinbachi</i>	CR	May-12	IUCN
<i>Stomatepia mariae</i>	CR	May-12	IUCN
<i>Stomatepia mongo</i>	CR	May-12	IUCN
<i>Stomatepia pindu</i>	CR	May-12	IUCN
<i>Taeniolethrinops</i> sp. ‘furcicauda ntekete’	CEN	May-12	<a href="#">AK</a>
<i>Thoracochromis brauschi</i>	CNT	Jan-16	GS
<i>Thorichthys callolepis</i>	VU	Feb-08	AK
<i>Trematocranus brevirostris</i>	CVU	May-12	<a href="#">AK</a>
<i>Trematocranus labifer</i>	CEW	May-12	<a href="#">AK</a>
<i>Tristramella sacra</i>	CR		IUCN
<i>Tropheus duboisi</i> ‘maswa’	CCR	Jan-16	<a href="#">AK</a>
<i>Tropheus moorii</i> (Ilangi, Kasaba Bay)	CEW	May-12	<a href="#">AK</a>
<i>Tropheus moorii</i> ‘Tanzania murago’	CCR	Jan-16	<a href="#">AK</a>
<i>Xystichromis nuchisquamulatus</i>	CEN		GS
<i>Xystichromis phytophagus</i>	CNT		GS
<i>Xystichromis</i> sp. ‘blue fire fin’	CNT	Jan-16	GS
<i>Xystichromis</i> sp. ‘day glow’	CNT	Mar-09	GS
<i>Xystichromis</i> sp. ‘flameback’	CVU	May-12	GS
<i>Xystichromis</i> sp. ‘kyoga flameback’	CCR		GS
<i>Xystichromis</i> sp. ‘nawampasared’	CVU		GS
<i>Yssichromis argens</i>	CEN	Mar-09	GS
<i>Yssichromis heusinkveldi</i>	CR	May-12	IUCN
<i>Yssichromis laprogramma</i>	VU	Feb-08	IUCN
<i>Yssichromis piceatus</i>	CCR	Jan-16	GS
<i>Yssichromis pyrrocephalus</i>	CVU	Mar-09	GS
<i>Yssichromis</i> sp. ‘blue tipped’	CEW	Mar-09	GS

Priority list: *Cobitidae* – True loaches

Species	Classification	Assessment	Authority
<i>Ambastaia sidhimunki</i>	EN	Feb-2011	<a href="#">IUCN</a>

## Priority list: Cyprinidae — Minnows &amp; Carps

Species	Classification	Assessment	Authority
<i>Barbus asoka</i>	EN		IUCN
<i>Barbus bandula</i>	CEN		PVL
<i>Barbus brevipinnis</i>	NT	May-2012	IUCN
<i>Barbus martenstyni</i>	EN		IUCN
<i>Barbus narayani</i>	CEN		PVL
<i>Barbus srilankensis</i>	CEN		PVL
<i>Chela caeruleostigmata</i>	EN	May-2012	IUCN
<i>Danio pathirana</i>	EN	May-2012	IUCN
<i>Danio</i> sp. <i>Lagalla</i>	CEN		PVL
<i>Epalzeorhynchus bicolor</i>	CR	May-2012	IUCN
<i>Garra barreimiae</i>	VU		IUCN
<i>Garra dunsirei</i>	VU		IUCN
<i>Garra longipinnis</i>	VU		IUCN
<i>Opsaridium peringueyi</i>	CVU		PVL
<i>Puntius denisonii</i>	EN	May-2012	IUCN
<i>Puntius titteya</i>	CNT	Oct-2013	PVL
<i>Tanichthys albonubes</i>	CEW		PVL
<i>Tanichthys micagemma</i>	CVU		PVL
<i>Tanichthys thacbaensis</i>	CVU	May-2010	PVL

## Priority list: Cyprinodontidae — Pupfishes

Species	Classification	Assessment	Authority
<i>Aphanius iberus</i>	EN	Jan-2006	<a href="#">IUCN</a>
<i>Aphanius transgrediens</i>	CR	Mar-2013	<a href="#">IUCN</a>
<a href="#">Cualac tessellatus</a>	EN	Aug-1996	<a href="#">IUCN</a>
<a href="#">Cyprinodon alvarezi</a>	EW		IUCN
<a href="#">Cyprinodon beltrani</a>	EN		IUCN
<a href="#">Cyprinodon fontinalis</a>	EN		IUCN
<a href="#">Cyprinodon labiosus</a>	CR	Mar-2007	<a href="#">IUCN</a>
<a href="#">Cyprinodon longidorsalis</a>	EW		IUCN
<a href="#">Cyprinodon macrolepis</a>	EN		IUCN
<a href="#">Cyprinodon maya</a>	EN		IUCN
<a href="#">Cyprinodon meeki</a>	CR		IUCN
<a href="#">Cyprinodon pachycephalus</a>	CR		IUCN

<a href="#">Cyprinodon simus</a>	EN	IUCN
<a href="#">Cyprinodon verecundus</a>	CR	IUCN
<a href="#">Cyprinodon veronicae</a>	CR	IUCN
<a href="#">Megupsilon aporus</a>	EW	IUCN

Priority list: Fundulidae — Fundulus

Species	Classification	Assessment	Authority
<a href="#">Lucania interioris</a>	CR	Aug-1996	<a href="#">IUCN</a>

Priority list: Gobiidae — Gobies

Species	Classification	Assessment	Authority
<a href="#">Glossogobius flavipinnis</a>	VU	Aug-1996	IUCN
<a href="#">Glossogobius intermedius</a>	VU		IUCN
<a href="#">Glossogobius matanensis</a>	VU		IUCN

Priority list: Goodeidae — Splitfins

Species	Classification	Assessment	Authority
<a href="#">Allodontichthys hubbsi</a>	CEN	Feb-17	JL
<a href="#">Allodontichthys polylepis</a>	CCR	Feb-17	JL
<a href="#">Allodontichthys tamazulae</a>	CVU	Feb-17	JL
<a href="#">Allodontichthys zonistius</a>	CVU	Feb-17	JL
<a href="#">Allophorus robustus</a>	CVU	Feb-17	JL
<a href="#">Allotoca catarinae</a>	CVU	Feb-17	JL
<a href="#">Allotoca diazi</a>	CEN	Feb-17	JL
<a href="#">Allotoca dugesi</a>	CEN	Feb-17	JL
<a href="#">Allotoca goslinei</a>	CEW	Feb-17	JL
<a href="#">Allotoca maculata</a>	CCR	Feb-17	JL
<a href="#">Allotoca meeki</a>	CCR	Feb-17	JL
<a href="#">Allotoca zacapuensis</a>	CCR	Feb-17	JL
<a href="#">Ameca splendens</a>	CEN	Feb-17	JL
<a href="#">Ataeniobius toweri</a>	CVU	Feb-17	JL
<a href="#">Chapalichthys encaustus</a>	CVU	Feb-17	JL
<a href="#">Chapalichthys pardalis</a>	CEN	Feb-17	JL
<a href="#">Characodon audax</a>	CCR	Feb-17	JL

<u>Characodon lateralis</u>	CCR	Feb-17	JL
<u>Girardinichthys ireneae</u>	CCR	Feb-17	JL
<u>Girardinichthys multiradiatus</u>	CVU	Feb-17	JL
<u>Girardinichthys viviparus</u>	CCR	Feb-17	JL
<u>Ilyodon whitei</u>	CVU	Feb-17	JL
<u>Neophorus regalis</u>	CCR	Feb-17	JL
<u>Neotoca bilineata</u>	CEN	Feb-17	JL
<u>Skiffia francesae</u>	CEW	Feb-17	JL
<u>Skiffia lermae</u>	CEN	Feb-17	JL
<u>Skiffia multipunctata</u>	CEN	Feb-17	JL
<u>Xenoophorus captivus</u>	CCR	Feb-17	JL
<u>Xenotaenia resolanae</u>	CVU	Feb-17	JL
<u>Xenotoca doadrioi</u>	CEN	Feb-17	JL
<u>Xenotoca eiseni</u>	CEN	Feb-17	JL
<u>Xenotoca lyonsi</u>	CEN	Feb-17	JL
<u>Xenotoca melanosoma</u>	CVU	Feb-17	JL
<u>Zoogoneticus purhepechus</u>	CEN	Feb-17	JL
<u>Zoogoneticus quitzeoensis</u>	CEN	Feb-17	JL
<u>Zoogoneticus tequila</u>	CEW	Feb-17	JL

Priority list: Loricariidae — Armoured catfish

Species	Classification	Assessment	Authority
Ancistomus sabaji Rio Xingú	CVU	Feb-2013	ST
Ancistrus sp. L255	CVU	Feb-2013	ST
Baryancistrus chrysolomus	CVU	Feb-2013	ST
Baryancistrus sp. L019	CVU	Feb-2013	ST
Baryancistrus sp. L081	CVU	Feb-2013	ST
Baryancistrus xanthellus	CVU	Feb-2013	ST
Hopliancistrus sp. L017/LDA15	CVU	Feb-2013	ST
Hypancistrus sp. L066	CVU	Feb-2013	ST
Hypancistrus sp. L333	CVU	Feb-2013	ST
Leporacanthicus heterodon	CVU	Feb-2013	ST
Oligancistrus punctatissimus	CVU	Feb-2013	ST
Oligancistrus sp. L016	CVU	Feb-2013	ST

<i>Oligancistrus</i> sp. L020	CVU	Feb-2013	ST
<i>Oligancistrus</i> sp. L030	CVU	Feb-2013	ST
<i>Oligancistrus</i> sp. L354	CVU	Feb-2013	ST
<i>Panaqolus</i> sp. L398	CVU	Feb-2013	ST
<i>Panaque</i> sp. L027/LDA63 'Xingú'	CVU	Feb-2013	ST
<i>Parancistrus aurantiacus</i>	CVU	Feb-2013	ST
<i>Parancistrus nudiventris</i> 'Rio Xingú'	CVU	Feb-2013	ST
<i>Parancistrus</i> sp. L300/LDA48	CVU	Feb-2013	ST
<i>Peckoltia</i> aff. <i>snethlageae</i> L161 Rio Xingú	CVU	Feb-2013	ST
<i>Peckoltia</i> aff. <i>vittata</i> L015	CVU	Feb-2013	ST
<i>Pseudacanthicus</i> sp. L025	CVU	Feb-2013	ST
<i>Pseudacanthicus</i> sp. L185	CVU	Feb-2013	ST
<i>Pseudacanthicus</i> sp. L273	CVU	Feb-2013	ST
<i>Pseudancistrus</i> sp. L067	CVU	Feb-2013	ST
<i>Scobinancistrus aureatus</i>	CVU	Feb-2013	ST
<i>Scobinancistrus</i> aff. <i>pariolis-</i> <i>pos</i> L048	CVU	Feb-2013	ST
<i>Scobinancistrus</i> sp. L253	CVU	Feb-2013	ST

Priority list: *Melanotaenia* — Rainbowfish

Species	Classification	Assessment	Authority
<i>Cairnsichthys rhombosomoides</i>	VU	Aug-96	IUCN
<i>Chilatherina bleheri</i>	VU	Aug-96	IUCN
<i>Chilatherina sentaniensis</i>	CVU		PVL
<i>Glossolepis doryti</i>	CCR	Jan-10	PVL
<i>Glossolepis incisus</i>	VU		IUCN
<i>Glossolepis wanamensis</i>	CVU		PVL
<i>Melanotaenia arfakensis</i>	VU		IUCN
<i>Melanotaenia boesemani</i>	CVU		PVL
<i>Melanotaenia eachamensis</i>	VU		IUCN
<i>Melanotaenia lacustris</i>	VU		IUCN
<i>Melanotaenia oktediensis</i>	VU		IUCN
<i>Melanotaenia parva</i>	VU		IUCN

Species	Classification	Assessment	Authority
<i>Chiloglanis bifurcus</i>	EN	Oct-2013	IUCN
<i>Synodontis brichardi</i>	VU	Oct-2013	IUCN
<i>Synodontis koensis</i>	NT	Oct-2013	IUCN
<i>Synodontis macrops</i>	VU		IUCN
<i>Synodontis pardalis</i>	NT	Oct-2013	IUCN
<i>Synodontis ruandae</i>	VU		IUCN

Priority list: *Nothobranchiidae* — *Toothcarps*

Species	Classification	Assessment	Authority
<i>Aphyosemion poliaki</i>	EN	Feb-2009	IUCN
<i>Epiplatys grahami</i>	CEN		PVL
<i>Foerschichthys flavipinnis</i>	CEN		PVL
<i>Fundulopanchax amieti</i>	EN	Feb-2009	IUCN
<i>Fundulopanchax sjoestedti</i>	CNT	Jan-2011	PVL
<i>Nothobranchius albimarginatus</i>	VU	Jan-2006	IUCN
<i>Nothobranchius annectens</i>	VU		IUCN
<i>Nothobranchius bojiensis</i>	VU		IUCN
<i>Nothobranchius elongatus</i>	VU		IUCN
<i>Nothobranchius flammicomantis</i>	VU		IUCN
<i>Nothobranchius foerschi</i>	VU		IUCN
<i>Nothobranchius geminus</i>	VU		IUCN
<i>Nothobranchius interruptus</i>	VU		IUCN
<i>Nothobranchius kilomberoensis</i>	VU		IUCN
<i>Nothobranchius korthausae</i>	VU		IUCN
<i>Nothobranchius lourensi</i>	VU		IUCN
<i>Nothobranchius luekei</i>	VU		IUCN
<i>Nothobranchius orthonotus</i>	CVU		PVL
<i>Nothobranchius patrizii</i>	CVU		PVL
<i>Nothobranchius rubripinnis</i>	VU		IUCN
<i>Nothobranchius steinforti</i>	VU		IUCN
<i>Nothobranchius willerti</i>	VU		IUCN
<i>Nothobranchius</i> aff. <i>Taeniopygus</i>	VU		IUCN
<i>Nothobranchius kafuensis</i>	CEN		PVL
<i>Nothobranchius</i> sp. 'lake victoria'	VU		IUCN

## Priority list: Poeciliidae — Livebearers

Species	Classification	Assessment	Authority
<i>Dermogenys weberi</i>	VU	May-12	IUCN
<i>Gambusia alvarezi</i>	VU	May-12	IUCN
<i>Gambusia clarkhubbsi</i>	CVU	May-12	MT
<i>Gambusia dominicensis</i>	EN	May-12	IUCN
<i>Gambusia eurystoma</i>	CR	May-12	IUCN
<i>Gambusia gaigei</i>	VU	May-12	IUCN
<i>Gambusia heterochir</i>	VU	May-12	IUCN
<i>Gambusia hurtadoi</i>	VU	May-12	IUCN
<i>Gambusia krumholzi</i>	VU	May-12	IUCN
<i>Gambusia longispinis</i>	VU	May-12	IUCN
<i>Gambusia nobilis</i>	VU	May-12	IUCN
<i>Gambusia senilis</i>	NT	May-12	IUCN
<i>Phallichthys quadripunctatus</i>	CEN		PVL
<i>Poecilia latipunctata</i>	CR		IUCN
<i>Poecilia sulphuraria</i>	CR		IUCN
<i>Poeciliopsis occidentalis</i>	NT	May-12	IUCN
<i>Poeciliopsis sonorensis</i>	CNT	May-12	MT
<i>Priapella chamulae</i>	CNT	May-12	MT
<i>Priapella olmecae</i>	CVU	May-12	MT
<i>Xenodexia ctenolepis</i>	CNT	MT	IUCN
<i>Xiphophorus couchianus</i>	EW		IUCN
<i>Xiphophorus gordoni</i>	EN		IUCN
<i>Xiphophorus kallmani</i>	CNT	May-12	MT
<i>Xiphophorus malinche</i>	CVU	May-12	MT
<i>Xiphophorus meyeri</i>	EW		IUCN
<i>Xiphophorus milleri</i>	CNT	May-12	MT
<i>Xiphophorus mixei</i>	CNT	May-12	MT
<i>Xiphophorus monticola</i>	CNT	May-12	MT

## Priority list: Pseudomugilidae — Blue eyes

Species	Classification	Assessment	Authority
Kiunga ballochi	CR	Mar-2007	<a href="#">IUCN</a>
Pseudomugil mellis	EN	Aug-1996	<a href="#">IUCN</a>
Scaturiginichthys vermeilipinnis	CR	Jun-08	<a href="#">IUCN</a>

## Priority list: Rivulidae — Rivulus

Species	Classification	Assessment	Authority
Austrolebias wolterstorffi	CVU	Jan-2014	PVL
Campellolebias brucei	VU	Aug-1996	<a href="#">IUCN</a>
Cynolebias boitonei	VU	1996-08	<a href="#">IUCN</a>
Cynolebias constanciae	VU		IUCN
Cynolebias splendens	VU		IUCN
Leptolebias cruzi	CEN		PVL
Leptolebias fluminensis	CEN		PVL
Leptolebias marmoratus	CEN		PVL
Leptolebias minimus	CEN		PVL
Leptolebias opalescens	VU		IUCN
Leptolebias sandrii	CEN		PVL
Nematolebias papilliferus	CEN		PVL
Rivulus fuscolineatus	CEN		PVL
Rivulus uroflammeus	CEN		PVL

## Priority list: Valenciidae — Valencias

Species	Classification	Assessment	Authority
Valencia hispanica	CR	Jan-2006	<a href="#">IUCN</a>
Valencia letourneuxi	CR	Jan-2006	<a href="#">IUCN</a>



