

ERISING

THE MAGAZINE for YOUNG ANGLERS and CONSERVATIONISTS

Coastal Conservation Association (CCA) is a non-profit marine resource conservation

organization. It has been active in almost every national fisheries debate for decades and has been a driving force in state and federal fisheries management issues. With your continued support, CCA

will continue to battle for the health and longevity of our coastal fisheries and for

recreational anglers interests in them.

Whod's Ins

Jungle Fish

The story of how a monster fish, Indifly, Costa Sunglasses and fly fishing came together to save a village.



The Texas Brigade Experience

An article by a kid, for kids.



Kids Making a Difference

What some are doing to play an important role in creating and restoring our natural resources.



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This publication is sponsored by Shell Oil Company



Fun Stuff!

Word search, knot tying, origami and a building set any CCA member would love!



Kids Fishin' Photos

Kids from all over the nation show off their trophies.





ON THE COVER >>

A giant arapaima being released back into the Amazon river basin in Guyana (South America) after being caught with a fly rod.



GET THE FACTS

We have a bad habit. Humans use 450 billion plastic drinking bottles a year, and far too many of them end up in our oceans. We at Costa know how important our oceans are, and as anglers, we're in a unique position to do something about it.

HERE'S WHAT YOU SHOULD KNOW:

- The equivalent of a garbage truck of plastic is dumped into the ocean every minute.
- By 2050 there could be more plastic than fish in the ocean (by weight).
- · Almost all the plastic ever produced is still around.
- · One in four fish tested have plastic in them.

SMALL CHANGES CAN MAKE A BIG IMPACT

- · Stop Using Plastic Water Bottles
- · Use Reusable Grocery Bags
- · Buy In Bulk To Cut Down On Packaging
- · Recycle Old Fishing Line

COSTA

GET INVOLVED AT costadelmar.com/kickplastic

SPREAD THE WORD -

None of us wants to live in a plastic sea. Join us in the fight to Kick Plastic by spreading the word about the problem and teaming up to find solutions. You can learn more about what we're doing to Kick Plastic at costadelmar.com.

HERE'S HOW YOU CAN SHARE:

- Post about Kick Plastic to your social media accounts. We've collected images and facts that'll help spread the word at http://bit.ly/kickplastic.
- Be sure to tag your posts with #KickPlastic.
 We'll amplify your posts on our campaign page to help you reach more people.
- Watch and share the Kick Plastic video at http://bit.ly/kickplasticvid to help get the word out and protect our oceans.



INDIFLY FINGLE DEDSTA

eep within Guyana's rainforest lives a an ancient freshwater fish, a giant fish, one of the largest in the world, a living fossil. The arapaina lives in the one of the most diverse ecosystems on earth - a giant among giants. Among jaguars, pythons, black caymans, golden frogs, over 1600 species of birds and 15% of the

world's fresh water.

After generations of living together with the environment, the villagers of Guyana began poaching. overfishing and overhunting to survive. Extractive industries such as logging and mining also moved in and men began leaving their villages and families to seek work in the mines. With the men gone, the crops began to die, leaving what little money they made to buy food. Eventually the birds stopped singing and the fish stopped jumping.

But in a village named Rewa, the story changed. The elders had an idea to put an end to poaching and to celebrate their local ecosystems again in hopes that others would too. The village came together to build an **ecolodge** and slowly their steps to restore the natural resources took hold. Birds began to sing again, fish began to jump; but the tourists didn't follow.

Stories started to reach people in America from **Costa Sunglasses** and *Indifly* about a Garden of Eden deep in Guyana's rainforest and about the people who made a leap of faith to protect their fish and wildlife. When these groups arrived, they found a giant fish lurking in the pristine environment. A monster fish. They saw every fisherman's dream - to catch the un-catchable.

And an opportunity to help change the fate of Rewa.

The first problem was it was illegal to even try to travel there and fish. Two years, 27 organizations and 300 meetings later, the people from Costa and Indifly received permission from the Guyanese government to catch and release fly fish for the arapaima - if it could even be done.

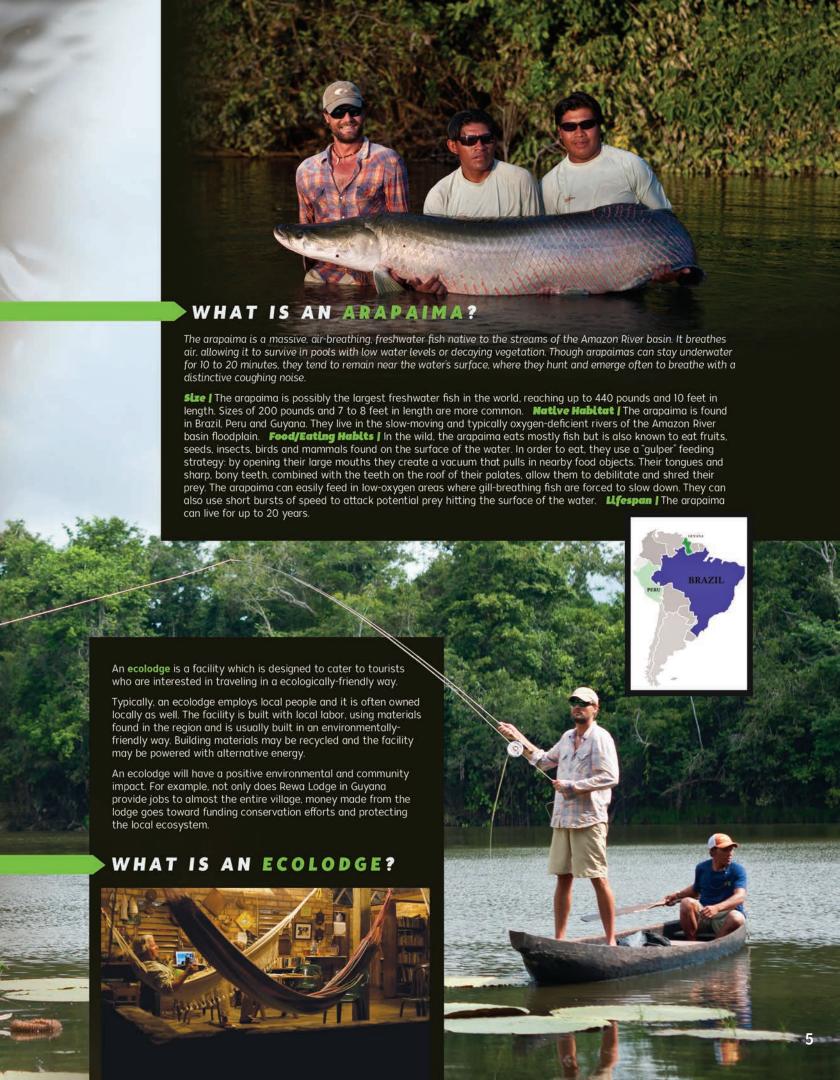
And so **Project Guyana** began. By single prop plane, boat, bus and boots they traveled deep into the Guyanese jungle. Two worlds came together on that trip. Over several days and countless broken fly rods, the villagers taught them about the arapaima - where they live, what they eat. And the people from Indifly and Costa taught them how to tie a fly and how to cast. Together they proved that the arapaima could be caught.

The film Jungle Fish they made about the journey made its world premier in the village of Rewa and not long after the film launched with rave reviews, catching the attention of global organizations and sweeping the sportfishing community; inspiring dozens of anglers to travel to Rewa with a dream to catch the un-catchable.

Today, the **Rewa Ecolodge** is employing the majority of the village labor force and conserving the ecosystem for future generations.

The village decided to save a fish, and that fish is saving the village. Learn more at www.indifly.org.

Costa is on a mission to protect the world's waters by promoting sport fishing.
Indifly is an organization that uses fly fishing as a tool for transforming the lives of indigenous people and protecting valued environments







- AN ARTICLE BY KIDS, FOR KIDS.

THE TEXAS BRIGADE EXPERIENCE

by Spence McNamara, Texas Brigades Cadet

he Texas Brigades, a wildlife-focused leadership development program for high school youth (ages 13-17), has a mission "to educate and empower youths with leadership skills and knowledge in wildlife, fisheries, and land stewardship to become conservation ambassadors for a sustained natural resource legacy." There are six separate Brigade camps: Bobwhite Brigade, Buckskin Brigade, Bass Brigade, Waterfowl Brigade, Ranch Brigade, and Coastal Brigade. In July 2015 I was fortunate to be a participant in the 10th Battalion of the Bass Brigade and then last summer I was part of the 1st Battalion of the Coastal Brigade. The cadets had a saying in the camps - "the hardest week you'll ever love" - and that is the absolute truth. Whether you are 13 or 17, the cadets are treated like adults and they are expected to work and act like adults. We made a lot of new friends. And we had a lot of fun.

The two programs that I participated in provided me with a unique perspective on the stewardship of our natural resources. The emphasis of the Bass Brigades included discussions on how to manage our inland fisheries. We learned about watershed management, and how to sample fish populations by electroshocking. There are a couple of ways to electroshock fish so that when they come near the electricity, they are stunned just long enough to scoop the fish with a net and put it in a bucket for population sampling. We also conducted water quality tests on the nearby lake, and evaluated the results. We learned about aquatic plant species and their habitats. Every day during the camp, we would get a short presentation on an aquatic plant and were taught tons of information. By the end of the camp we could identify them outdoors, know whether they were invasive or not, and what their role in the ecosystem is. We also learned about fish biology and on the first day we had a lengthy anatomy activity in which we dissected fish and learned about their internals. We also learned about the different types of scales on a fish, and their fins.

The Coastal Brigade focused on the coastal ecosystem and much of our work and discussion at the camp examined just how interrelated and balanced everything in the coastal environment is. It was extremely interesting to learn how important oysters are to water quality. If oysters are overfished, eventually water quality will suffer, which then impacts fish populations, such as redfish, and birds. If oysters are depleted over an extended period of time, it is possible to destroy the coastal ecosystem. Since every fish, every plant, and every organism has a role to play in maintaining the balance of the ecosystem, the unintended consequences of one action, such as over-fishing oysters, can have significant and very long-lasting effects on the entire ecosystem. There are countless numbers of different aquatic species that need to be managed correctly in order for the ecosystem to be sustainable.

At both camps we had instruction from experts on spin, bait, and fly fishing as well as instruction on how to tie flies. There were fishing tournaments and friendly competitions for a number of very nice prizes that were donated by some great companies. It was a lot of fun to meet new people who share an interest in being outdoors and actively participate in fishing and hunting.

Each Brigade focuses on leadership, team-building, and communication skills which is important because we need people who not only understand the problems, but can also communicate, lead, and work with others in order to effectively balance the use of resources with proper stewardship. The Brigade program encourages conservation-minded youths to advocate for the proper care of local environments. As I learned at both camps, "anyone can count the seeds in an apple, but no one can count the apples in a seed." Every cadet that attends a Brigade camp has an infinite ability to positively influence how we use our natural resources.



IT WAS A BUSY 2017 FOR KIDS INVOLVED CCA MARYLAND'S LIVING REEF ACTION CAMPAIGN - an educational and restoration campaign that offers a variety of opportunities for schools and kids to play a role in oyster restoration. Students from 4th grade through 12th grade across the state participated in a variety of conservation opportunities that allowed them to play an important role in creating and restoring our natural resources.

WHAT HAVE THESE KIDS HELPED THE LIVING REEF ACTION CAMPAIGN ACCOMPLISH SINCE 2015?

- · Completed more than \$250,000 in Chesapeake Bay habitat restoration projects
- · Created more than 350 reef balls that are creating reef habitat for more than 600,000 juvenile oysters
- · Recycled more than 300,000 oyster shells
- · Have helped plant more than 3 million oysters through spat on shell restoration
- · Engaged more than 1,000 students in building reef ball habitat for oyster restoration
- · Received of the "Project of the Year" award from Carroll County's Environmental Advisory Council
- · Received the "Outstanding Community Leadership" Award from the Maryland Recycling Network

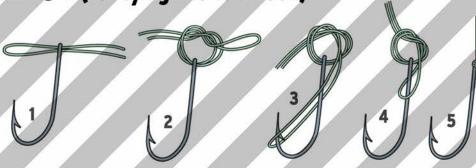






knot to know PALOMAR KNOT (for tying line to a hook)

- Double your line to make a loop, then push the loop through the eye of your
- 2. Tie a loose overhand knot.
- Pass the loop around the end of the hook.
- Pull on the line to tighten.
- 5. Trim the loose end of the line if necessary.







To submit photos, have your parents:
1. Email to photos@joincca.org OR 2. Share on Facebook at Facebook.com/CCANational

* There are a lot of kids fishin' out there and while we try our best to get everyone's photo published, we cannot guarantee yours will be printed.

* Any photo with a child (under 13) not wearing a life jacket on a boat cannot be published, as we want to portray safe boating examples to all our readers.









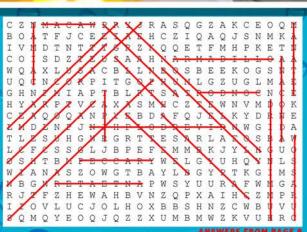


Thank you Shell! Because of the generous support of Shell Oil Company, the Rising Tide Youth Program will continue to thrive!















Conservation & Protection of Marine Life

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