

'They Are Very Feisty To Say The Least': Aquaponics Class Explores Options For Raising Prawns In The Arizona Desert

By <u>Annika Cline</u> Published: Wednesday, February 14, 2018 - 4:36pm Updated: Friday, February 16, 2018 - 3:19pm

Listen to Audio

Like 0
Share 0
Tweet



In aquaponics gardening, plants grow without needing soil. (Photo by Annika Cline - KJZZ)

And now we take a look into something fishy. Freshwater prawns are raised right here in the desert, believe it or not.

Prawn farming is alive and well in the U.S. But a class at Mesa Community College wanted to learn how to better raise these crustaceans using aquaponics, the combination of raising fish and growing plants in the same system.

"So we harnessed nature in order to grow food for us - both fish in these tanks and plants out here," said Dr. George Brooks, who leads the aquaponics class.

The class is part of the Sustainable Agriculture program at the college, and Brooks holds it outdoors in a space that looks like a plant nursery or community garden.

"Here we have collard greens, broccoli, kale, mustard greens, some kinds of lettuce," Brooks said, pointing out different leafy greens.

Aquaponics Class Explores Options For Raising Prawns In The Arizona Desert | KJZZ

It's the beginnings of a great salad. Underneath the flourishing plants is not soil, but large containers filled with water, including a kiddle pool.

"We have the fish in these tubs," Brooks said. "And it uses the waste from that fish, and there are bacteria that turn that waste into plant food. The plants absorb that plant food - fertilizer called nitrate - and they grow very well. But because of that they remove it all from the water, cleaning it for the fish, and it starts all over again.

It's a closed loop where the fish waste feeds the plants, and the plants clean the water for the fish. Both grow, and both can be harvested.

prawns are actually wint

PLO0

etite themselve

and a state of the

"And the cool thing about it is that you can literally grow food on a parking lot if you really wanted to," Brooks said.

But when the prawns were at the college last semester, raising them to be big enough to eat was no picnic - partly because the prawns have a

ven in Phoenix. Brooks said the prawns are fine with warmer - in fact, it's the cooler days they don't like. The college's

they're biogest problem - they tend to be cannibalistic

one."

n't do the job

e of the prawns' behaviors he's seen so far. This has led

an plants turne

Dr

But the findings excite Brooks, who will present them

he'd like to explore

hat kind of roots do they

needs affect their aggr

In Bangladesh w

t's a fish eat

farme

They ate the plant

out a liftle

And how do their

here is an effect?

om, they get really

can figure that out, a

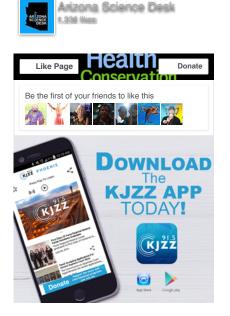
with a water heater right now

would personally

Dr. George Brooks, left, stands with one of his students (center) and Peter Conden, director of the Sustainable Agriculture program at MCC. (*Photo by Annika Cline - KJZZ*)



Like Arizona Science Desk on Facebook



All Things Considered

Wednesday at 3 p.m.



Scientists recently discovered an ancient cypress forest buried in the Gulf of Mexico. Now, a journalist is trying to get the site federally protected.

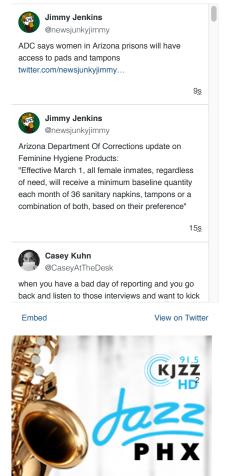




KJZZ on Twitter

newsroom

A Twitter list by @kjzzphoenix Reporters, editors and hosts from the KJZZ newsroom.



Please read our <u>Contributor Confidentiality Policy</u> and the <u>KJZZ Ethics and Practices</u> guidelines. KJZZ supports <u>Equal Employment Opportunities</u> and works against discrimination in employment. For more information, please see KJZZ's <u>Employment and EEO Information</u> page.

Ť

For questions or comments about this website, please contact the <u>KIZZ webmaster</u>. For general comments or questions see the <u>Contact KJZZ</u> page for a listing of contacts by topic. **Please note:** Station policy mandates that listeners who win on-air giveaways on this station are not eligible to win again for 30 days. Email regarding NPR's coverage, ethics, and funding can be sent to the <u>NPR Ombudsman</u>, who maintains an informative <u>web page</u>. For comments or concerns regarding NPR programs, listeners with a general inquiry, visit <u>NPR's contact form</u>.

KJZZ is a service of <u>Rio Salado College</u>, and <u>Maricopa Community Colleges</u>. Copyright © 2018 KJZZ/Rio Salado College/MCCCD

JAZZ.KJZZ.ORG