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COMMUNITY

Aquaculture holds promise for area farmers

BY PETER WILLIAMS The Perguimans Weekly

Nobody is saying growing fish will ever replace the growing of crops in northeastern North Carolina, but industry experts say aquaculture is here and is likely

to only grow larger. "It's more than you'd think," said John Aydlett about aquaculture in the northeast. He works in the N.C. Department of Agriculture and Consumer Services northeast marketing center in Elizabeth City.

One reason the industry may grow is the demand to feed more people and tighter rules on wild-caught seafood

According to the United Nations' World Population Prospects report, the world population is currently growing by approximately 74 million people per year.

Fish are more efficient than other animals when it comes to how much food they need to produce a pound of meat. According to one federal statistic, it takes S7 pounds of food to produce one pound of beef. 5.9 pounds in food. Chickens are far more efficient at 1.9 to one. Silmon need about 1.2 pounds of food to produce one pound of meat.

Steve Gabel, an Edentonbased extension specialist who works with aquaculture, thinks fish farming will grow because restrictions on wild-caught seafood will only increase.

WATER FIXES

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rates" Howard said.

The other reason, he said, was the county water system's softening problette County officials knew the state would be order. ing changes in the water system and they intended operates an efficient systo get ahead of that by setting rates high enough that the water fund would begin capital projects.

The county

SUBMITTED PHOTOS

An aerial photograph shows a sprawling Artesian Aquafarms LLC in South Mills.

"He said if a hurricane

came through it didn't mess

with him. If it gets too wet,

I'll drain and if it gets too dry,

picture of agriculture that in-

cludes financial rewards, but

also includes a lot of work

and the prospect they could

Gary Sawyer farms hybrid

"When you lose money.

striped bass in South Mills.

you lose lots of money in

a hurry." Sawyer said. "If

you're in it for the long haul,

Gary Sawyer got started

"We had built fish ponds

Local fish farmers paint a

fish

I'll pump.

get wiped out.

that can be raised in the wild," Gabel said, "I think you'll see more in the future with the restrictions on the wild caught industry. It will only get tighter and the protem has got to come from somewhere.

Gable has been an agricul-For pork the ratio is one to -ture agent for 33 years and moved to Edenton in 1988. His current job as an aquaculture specialist for the N.C Extension Service puts him covering a 22-county area from Wake County west to Currituck and south to Beaufort

> Gable started working you can make it." in extension while living in Louisiana. He said one fish in aquaculture in 1994. farmer explained why he

lons but was increased to

county's water rates are still

\$18.50

at \$9 for the first 2,000 gal-new

"There is a limited amount shifted from crops to cat- for other people using a bulldozer and dragline."

> He had a 100-acre farm, which he admits "wasn't a huge farm to make it in agriculture

He now tends 65 acres with 23 ponds growing hybrid striped bass for sales to northern markets.

Saywer sold his operation to Charles Verdery, the president of Sydnor Hydro, a well drilling company based in Richmond, Va. Sawyer still manages the fish farm and ships about 300,000 pounds a year to wholesale markets in New York and Maryland.

"If they like hard work. It's very intense and you can't leave the farm in the summertime. But it's been

we produced, but lately the markets have been getting real crowded. If everybody decided to grow fish, I don't think there is a market for

Finding the market that's the key —Gabel says.

"Don't come up with an attitude that if I grow them. someone will buy them," Gabel said. "Get your market first. And more sure you have the right water."

The Fish Connection Cooperative in Washington, N.C. helps growers find a market for their fish.

Aydlett said the southeastern part of the state is bigger and in the western part of the state trout production is strong. State estimates show the number of North Carolina aquaculture sites is down slightly, but the value and tonnage of the products is up. The total value of the state's aquaculture industry in 2014 was estimated at \$58 million. That's up from \$50.9 million in 2008, but the same

for 2005. Growersare working on ways to increase

good. We've always production and add fish that managed to sell whatever don't normally thrive well in captivity.

SUBMITTED PHOTO

A net lifts hybrid striped bass

out of a fish

farm pond

in South

Mills

as the estimate

In ponds you can produce a pound of fish for every 250 gallons." Gabel said. "In a closed (tank) system, you can produce a half (pound) to three quarter of a pound (of fish) per gallon."

It's possible that in the future, fish food, fish and fish processing can all be done in the same place.

"There is something close to that now with Carolina Classic in Ayden," Gabel said. "They have their own feed mill to produce catfish feed which they're producing.

One popular fish ---flounder --- is on the decline in the wild, so limits have been placed on catching them. Gabel said some people on working to produce farmraised versions in tanks.

"The big problem is they don't use the whole water column, just the bottom. Striped bass swimming in tanks will use the whole water column."

Howard told the audience \$4.50 per 1,000 gallons after - that it was in 1999 that the pursued. the first 2,000. That brought - county first received a letter the bill for 4,000 gallons to from state officials about the discharge of wastewater Howard said that even from the water treatment

with the rate increase the plant. Wastewater was infiltratlower than those in nearby ing the holding pond and counties because Chowan the state told the county it had to fix the problem.

The following year, state In this area, only the Town officials directed the coun- county will be allowed to of Edenton at \$23.25 and ty to relocate the discharge continue softening the walower bills for 5,000 gallons apply for a non-discharge moving forward. permit

needs to set aside money. to fund whatever project is

But the county is looking for clear direction from the state before moving forward with any capital project for the water system.

"We don't want to do anything until the state is sure what they ; ant us to do," Diehl said.

Diehl said he believes the

a Republi-

required upgrades.

But that didn't go as planned. Shortly after the rate increase took effect, the county received a letter from the state calling for immediate remedial action.

"We didn't even have half a month worth of savings in the bank from that he new rate increase when we got the letter," Diehl said.

Howard said the county does not expect to be fined that will enable the county

mediate solution wouldn't necessarily be wasted effort and wasted money, since a future RO plant at the current location to remove total dissolved solids could make use of a pipe to Harris Landing.

Howard said the county is expecting to set aside \$300,000 a year with the new rates in place.

In addition to the neces sary upgrades to the treatbecause it is working with ment plant. Diehl said, the to grow some reserves for Gates County at \$22 have to Rocky Hock Creek or ter as long as it has a plan the state to enter into a county also will need to do special order by consent \$2 million or so in line replacement work over the next couple of budget years in order to replace worn-out distribution lines.

tale which went into eftest earlier this fiscal year. is \$30 (or 5000 gallors) \$24. Washington County, Other for 4000 gallous). The mini-counties include Perquinome bull for the first 2000 maps at \$43. Currituck se per gallons for each 1.000 - at .840,50; Currituck, Outer dations after that.

The county in 2005 raised - \$35,88, and Bertie at \$35. the rate to \$3 for the first (*) 1000 gallons. That was \$17 for 4,000 gallons.

The highest bill for 5,000 gallons is \$12, and then its. Mainland at \$42.50. Tyrrell, then state officials told the -of Edenton. Banks at \$37,50. Dare at

than Chowaris \$30

2000 gallons and then \$4, the county water system source. Howard said, have been in the news a lot

during the past few months - for ways to make use of In 2008 the rate remained the issues actually are not the planning it has already

BANKRUPTCY

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spent \$35,000-\$40,000 on a plan to discharge at Harris Landing. Howard said. But joint project with the Town county that the salt concentration in the wastewater or effluent was too high to study on a solution for its Although problems with discharge into a freshwater

> The county is looking done, since it has money tied up in those plans.

> The county manager said that hopefully the county will be able to go back to the Harris Landing plans, with the addition of an onsite holding tank.

the water system issues, Howard said he believes the county has been proactive. but has been given moving - northern Gates County. targets by the state

who consults with the, in the water fund over the county on water system next couple of years in or-

the possibility of pursuing a

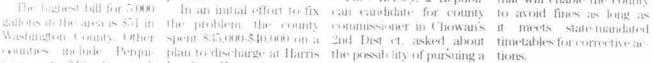
Howard said the town currently is doing its own water problems.

He and Diehl explained that the town as 1 county. face different kinds or problems. In the county's case, Diehl said, the water coming out of customers' faucets meets all state standards.

 Edenton actually has issues with the quality of water coming out of the tap. Diehl said.

Diehl said getting water When audience mem- from Gates County at a rate bers asked why the county adequate to meet county by 2035 the county could hadn't been proactive about needs would require an expensive project of constructing a transmission line all the way to the plant in

The county's goal had Bill Diehl, the engineer been to set aside money concerns, said the county der to have funding for the



purpose of an SOC is to hilsaid buy time to fix the problem without being fined.

Robert Kirby, a civil engineer who was in the audience at the meeting, asked if the county should not be looking at building a reverse osmosis treatment plant as the long-term solution. He noted that Diehl had indicated an RO plant was the only practical way to eliminate total dissolved solids. which is what causes white deposits to form on plumbing fixtures.

Diehl said that maybehave an RO plant on-line if it started planning now for it. But the county doesn't have nearly that much timeto address the state's mandates regarding discharge. he said.

the county do something noted wastewater from now. Diehl said. The immeinvolve a holding tank at the plant and a new discharge line to a state-approved discharge point.

"There are a lot of costs Diehl agreed that the that we are looking at," Die-

As the process moves forward, county officials will study implementing reverse osmosis at the current plant.

In 1983 the county built a new treatment plant that generated 800 gallons of water a minute. Over the years that capacity has been expanded through upgrades at the plant and now stands at 1.600 GPM.

The original permit for the plant called for the effluent to be discharged into a roadside ditch.

But sometime in the late 1980s or early 1990s, construction and grading on Highway 32 made it impossible for the county to con-. tinue discharging into the ditch.

A letter from state envi-The state is going to make - ronmental - officials in 1999 the treatment process "indiate solution is likely to filtrates the groundwater within the settling pond."

County and state officials have been working on the problem since then, pursu-But Diehl said the im- ing a workable solution.



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