## **6A NEWS**

## THE LITTLE HAWK | THELITTLEHAWK.COM | FEBRUARY 16th, 2018



Iowa is the country's largest producer of pork with 21 million pigs, seven times the number of humans



The total toxic discharge in Iowa's waterways is 6,602,493 pounds



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# There's **Something** in the Water

Governor Reynolds just signed a law that will spend \$238 million to stop agricultural runoff from polluting Iowa's water. But in the biggest pork and egg producing state in the U.S., will that be enough?

#### By Lottie **Gidal** and Phoebe **Chapnick-Sorokin** *News Editors*

ue to runoff from crops and livestock, over half of all Iowa bodies of water are polluted. In an attempt to fix this problem, on January 24th Governor Kim Reynolds signed a bill that will spend \$282 million in an effort to clean up Iowa's waters. It's still unclear if that will be enough.

Supporters of the bill say that this is a necessary step in the effort to fight water pollution, but many environmental groups are concerned that the spending requirements associated with the bill are far too vague and leave little room for accountability.

There are two main components to the bill. The first provides \$156 million to help fund watershed projects as well as encourage farmers to plant cover crops and saturated buffers in order to prevent excessive amounts of nitrogen and phosphorous from flowing into Iowa's lakes and streams. The second part of the bill will give \$126 million to cities and communities across the state to fix their drinking-water facilities. Forty percent will be given to programs that seek to protect sources of drinking water and 45% to a loan program focused on ground and surface water improvement projects. The remaining 15% will go towards decreasing erosion and stormwater discharge.

Starting with \$2 million in 2018, the money will be portioned out slowly at first and will increase over the next 15 years. However, it will fall far short of the \$4 billion experts say is required if the state wants to meet its goal of reducing nitrogen and phosphate levels by 45%. The problem of agricultural runoff in Iowa is spurred by the concentration of CAFOs, or Confined Animal Feeding Operations, in the state. Iowa is the largest producer of both pork and eggs in the country, and while this provides an important base for the state's economy, it also causes several types of pollution. CAFOs and other large scale farming operations send millions of pounds of waste and toxins down the Mississippi each year. When these wastes reach the Gulf of Mexico, they create vast dead zones on the ocean floor.

But these environmental impacts can also hit much closer to home than the Atlantic. In 2015, the Des Moines Water Works filed a lawsuit against farmers in three different counties, whose collective stock totaled three million pigs and one million turkeys. The company no longer wanted to spend millions of dollars every year to run two central Iowa water sources through a system in or-

> der to strip out high levels of nitrates and bacteria. In March of 2017, it lost that lawsuit.

"Perhaps the state legislature should now spend its time addressing meaningful, long-term, sustainably-funded policy solutions to our serious water problems instead of meddling in affairs best left to local communities," said Water Works CEO Bill Stowe.

The state has formed a Nutrient Reduction Strategy to help overcome the problem, but environmentalists have pointed out that this strategy does not cover bacteria, which are the leading cause of water damage in Iowa. These bacteria come from manure, which is frequently applied to fields, and livestock facilities such as CAFOs.

An issue that arises regarding the high number of CAFOs in Iowa is the question of what to do with manure and other animal waste products. When large amounts of waste are produced, farmers are supposed to spread it throughout their crops. However, because artificial fertilizers are often more effective, farmers end up refraining from that man-

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DEAD ZONE, WE SEE THE ALGAE BLOOM, BUT WE DON'T SEE THE LINK WITH WHAT IS HAPPENING UPSTREAM" which facilit

### SILVIA SECCHI

"WHAT WE SEE IS,

WE SEE THE FISH

KILLS, WE SEE THE

PROFESSOR OF NVIRONMENTAL STUDIES



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The state's pig residents create an average of 9 billion gallons of manure annually

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**KIM REYNOLDS** 

GOVERNOR OF IOWA





practice. Instead, they apply the chemicals and the manure properly disposed of. Although the state has regulations e, they work side by side with the Clean Water Act, which st introduced in the 1970s. When these pieces of legislation itially put in place, these large facilities did not exist, and s have not been altered to better provide for the expanded es of farmers today. As a result, many CAFOs are able to vent the regulations that should be preventing them from rating illegalities.

ia Secchi is a professor at the University of Iowa who is ng the environmental impacts of agriculture, water sustainand conservation policy. Secchi thinks it is time for new be put in place.

e need to pass a new law that has different rules about those operations], those thresholds that is maybe smarter in of how these are," Secchi said. "You know, if you have one per county it's very different than if you have 100." believes that there is a very simple reason to why no new e being passed.

ongress cannot agree," Secchi said. "What is they take what is out there and they it a square peg in a round hole and then tt step is litigation, you know, people go to nd say, 'Nope.'"

chi pointed out that this is what is happenh the Clean Air Act, Clean Water Act, and vironmental Protection Act.

ricultural pollution can be categorized into oups; point and nonpoint. Point sources can rred to whether the pollution can be directly ted to a specific location or cause. For e, with a large pipe, it is possible to trace ninants back to the source, whereas with ive bodies of water such as the Mississippi, possible to trace.

order to be considered a point source, which s a permit, CAFOs need to be a certain ecause of the flexibility of this regulation, arms have multiple units close to this limit, t quite reaching it. This produces the same t of pollution, but it prevents the governrom regulating those corporations. These s can avoid permits required by the state an accident, such as a large fish kill, occurs

that can be sourced to a particular location.

"Even though the technology is getting better with such things as precision farming, so you only apply the nutrients where they need to be, or you have better technology to build the pits that store the manure, we don't have the means to determine whether people are doing the best," Secchi said. "What we see is, we see the fish kills, we see the dead zone, we see the algae bloom, but we don't see the link with what is happening upstream."

The environmental impacts of CAFOs make the issue of regulating them all the more pressing. The usage of antibiotics on animals is another point of concern with CAFOs. Although there are regulations on use-it must stop at a certain point before slaughter-antibiotic resistance is still present. Antibiotics make up a small portion of the many pollutants that are used at low, regulation-compliant levels, but that over time can impact the environment. CAFOs use antibiotics to prevent their animals from getting sick, but in reality antibiotics use can cause more problems.

Because they are nonpoint sources, there is little to no monitoring of farmers' or CAFOs' activities. This makes it very difficult to determine whether or not they are implementing environmentally friendly policies. Secchi believes that the biggest problem in past legislation is that while they may set requirements, there are LEGISLATION DOES no checks or means of enforcing them.

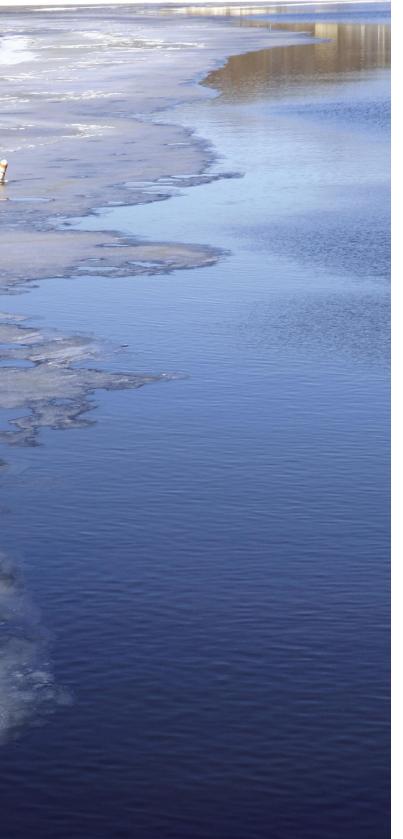
> "I am a firm believer in monitoring," Secchi said. "Monitoring is not exciting. You don't discover anything new. You just go and do the same thing over and over again, but it's fundamental to understand where we are going and the trends."

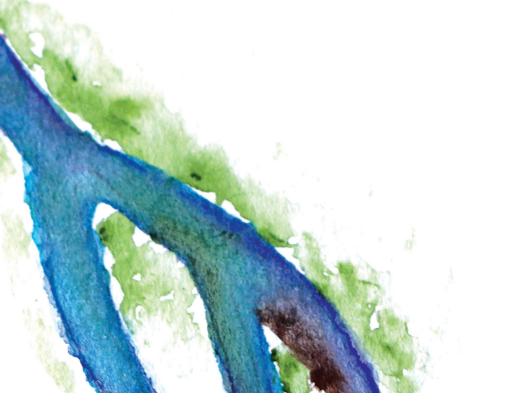
> In the recent state house bill, environmental groups took up Secchi's concerns. Josh Mandelbaum, an attorney at the Environmental Law and Policy Center, believes that the lack of specific goals and a timeline is hugely problematic.

> "To understand if we're actually making progress, we need to monitor water quality," Mandelbaum told the Des Moines Register. "Once you have that baseline, then you need specific goals. You need timelines associated with those goals. And you need benchmarks to see if you're meeting those goals. If you don't have any of those pieces, how can you say you're serious about improving water quality?"

> But Governor Kim Reynolds says this is only the beginning of the effort to improve water quality.

"Passing this long-awaited legislation does not mean the water quality discussion is over," Reynolds said in a statement after the passage of the bill. "It should ignite a continuing conversation as we begin to implement the practices that will continue to make an impact on water quality in Iowa."





ABOVE: The Iowa River, one of the most polluted in the country PHOTO BY Lottie Gidal **ART BY Azzurra Sartini-Rideout**