

But how did Elodea get into Alaska's lakes in the first place? Waterweed is a common aquarium plant. Every expert I've asked blamed the problem on people dumping the contents of aquaria into local water bodies. Don't think so? A turtle was spotted in Sand Lake last summer. Anyone who would toss a turtle into Sand Lake would pitch anything else contained in an aquarium. Fish and Swenson looked back. The Elodea was gone. A thought crossed Swenson's mind: "Wow, if it

happens to us, it could happen to anybody." Swenson worried where the fragment will fall. Shortly before landing at Hinchinbrook Island, do but worry about what the rudders. Once you're airborne there's not much you can do about 15 minutes into the flight to Hinchinbrook Island, Swenson looked out the window and saw a piece of Elodea dangling from one of the rudders. Once you're airborne there's not much you can do but worry about what the rudders. Once you're airborne there's not much you can do about 15 minutes into the flight to Hinchinbrook Island, Swenson looked out the window and saw

weed entangled in the rudders of the Cesna 206 floatplane. The Copper River Delta. Before departing, Swenson carefully removed fragments of the invasive insect and disease-damaged forests. His pilot landed on Martin Lake, an Elodea-infested lake on September, Steve Swenson, with the U.S. Forest Service, conducted an aerial survey looking for floating planes are a diabolically effective way for the plant to colonize new lakes and streams. In

floatplanes, boats and boat trailers, all of which can snag and transport fragments of the weed throughout the state. The problem is, control efforts aren't helping up with Alaska's algae problem under the ice. Without prompt human intervention, the aquatic weed will spread growing invasive it grows fast and clogs lakes and slow-moving rivers. It thrives in cold water, even because a first confirmed sighting was in Eayak Lake, near Cordova, in 1982. Where Elodea has

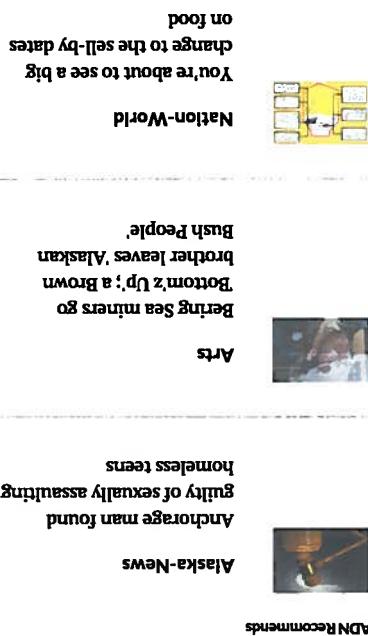
There's a lot to lose. In 1997, by some estimates, China Slough supported up to 50 percent of the grayling spawning in the Chena River system. Worse than that, the slough is a tributary of the Tanana and Yukon rivers, raising the possibility of the weed spreading downstream into one of North America's largest river systems.

The big concern is that the alien weed will degrade fish habitat for species such as salmon, trout and grayling. Until the 1990s Fairbanks area anglers considered China Slough to be a productive arctic grayling stream. However, in recent years, anglers believe the fishery has declined substantially. Some scientists attribute the decline to Elodea.

Unlike some terrestrial weeds that seem to be content hanging around towns and highways, Elodea is fully capable of spreading into slow-moving water bodies throughout Alaska. It has already begun. Alaska's vaunted sport, commercial and subsistence fishing industries may eventually be the weed's first victims.

Two species of Elodea, aquatic plants commonly known as Canadian and Nuttall's, have been found in recent years in a handful of lakes and sloughs near Fairbanks, Anchorage, Cordova, and Ketchikan. Native to some states in the Lower 48, these two species are the first invasive aquatic weeds in Alaska.

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## With a noxious aquatic weed threatening Alaska's prime fishing waters, science and local politics are at odds

Alaska's prime fishing waters, science and local

politics are at odds

Voice

Her agency wasn't planning to kill Elodea with an herbicide. Instead, she had found someone who would provide "100 percent naturally occurring microbes" to kill the weed. Other details regarding agency-published last July for Sand Lake's Stencel told the commissioners that a newsletter her agency provided most likely for Sand Lake's Stencel touched in the newsletter was entitled "Be an Expert on Biological Lake Microbes" that Stencel had provided in the newsletter.

Notwithstanding the likelihood that most of the homeowners around Sand Lake use weed-and-feed or other lawn herbicides, Stencel raised the specter of poisoning the lake.

Some Sand Lake homeowners own floatplanes. The U.S. Fish and Wildlife Service, concerned that any number of lakes throughout Alaska, was recommending that the weed be eradicated immediately -- by herbicide, if necessary.

It soon became obvious that one of Stencel's chief concerns was federal overreach.

In October, the Anchorage Watershed and Natural Resources Commission, wanting to learn more about invasive weeds, invited Ryan Stencel to talk at their monthly meeting. Stencel, operations manager of the Anchorage Soil and Water Conservation District, focused her presentation on Sand Lake's Elodea.

Last year Elodea was found in Stormy and Daniels lakes on the Kenai Peninsula south of Alaska's Fairbanks district \$70,000. The Anchorage district has received \$115,000 in legislative appropriations and Anchorage Soil and Water Conservation districts to assist in education, outreach, and eradication of soil and water conservation district programs. The Alaska Legislature has funded the Fairbanks and DNR's division of agriculture oversees the state's invasive Weeds Program. DNR also supports local responsibility for dealing with Elodea to the Alaska Department of Natural Resources.

Last year Elodea was found in Stormy and Daniels lakes on the Kenai Peninsula south of Alaska's largest city. In January, several state agencies signed a memorandum that ceded primary responsibility for dealing with Elodea to the Alaska Department of Natural Resources.

Campbell lakes. He found lots of Elodea. Subsequent trips discovered the weed in Delta and Sand floatplane lakes -- Lake Hood and Spruce Lake -- and found nothing. But when he visited the main wonder of Elodea was established in Anchorage-area lakes. In 2011 he visited the main regional fisheries and aquatic invasive species coordinator for the U.S. Fish and Wildlife Service, herbicides because the water is flowing. Hearing the bad news from Fairbanks, Cecili Rich, the currently confined to lakes and ponds, Chena Slough will be a challenging environment for from experts and stakeholders before proceeding. While most Elodea infestations in Alaska are using the dredge alone. She said the district is considering herbicides, Elodea in Chena Slough however, according to Darcy Etchverry that experience led the agency to believe it will take six

Another infestation was found in Fairbanks' Chena Slough in 2010. By the end of 2011 scientists had found a dense concentration of Elodea in the lower 10 miles of the slough as well as in Chena River and Chena Lake. They used federal funding to purchase a suction dredge mounted on a barge and the weed. The Fairbanks Soil and Water Conservation District is actively combating the weed.

After Elodea was found in Eayak Lake, it was subsequently discovered in several other water bodies on the Copper River Delta. Elodea's ability to colonize these remote, unconnected water bodies suggests that weed fragments are being dispersed by floatplanes.

Establishing roots in Southeastern, Interior Alaska

Fish eaters aren't the only ones liable to be affected. Because the weed chokes waterways it can also increase water flow and increase sedimentation, impede boats and floatplanes, and reduce property values.

These specific points were not discussed in the commission meeting. However, undeterred by Elgestad's assertion that Elodea was not native to Alaska, Stencel continued. In her opinion, Elodea has blurred in Sand Lake because of the "muck." And a decline in water quality. Then she launched into a muddle explanation of how the bottom of Sand Lake used to be sand and gravel, kept clean of sediments and organic matter by natural flow. A previous administration -- here she paused -- slogan.

Chena Slough begins at a specific point, suggesting that its proponents were dumped into the Chena Slough evidence that it was brought into Alaska by people. The upstream extent of Elodea in from 1923 to 2010. Elodea is not found in the Yukon (except, I should add, in aquariums), which is convincing evidence that it was native to Alaska, according to the Yukon (in aquariums), which is from Elodea -- The University of Alaska's Museum of the North has documented only two collections of Elodea --

They found Elodea listed as an invasive species in a guide to invasive freshwater plants in Alaska published by state and federal agencies. The weed is not yet widespread.

Flagstad had a copy of a letter, written in April 2013, from Tricia Wurtz and Nick Lisszow to the Alaska Division of Agriculture's Plant Materials Center detailing nine reasons why Elodea isn't native to Alaska. Wurtz is the invasive plant program manager for the U.S. Forest Service in Fairbanks. The authors reviewed more than 140 scientific articles and other documents.

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Flagstad's presentation that no reputable experts believed the Elodea in Sand Lake was a native aquatic plant was a little anti-listening. Flagstad told the audience that Elodea was native to Alaska, but she was obviously getting a little anti-listening. Flagstad had been patiently waiting her turn to speak, but she was obviously getting a little anti-listening. Cleatinghouse, a collaborator of several federal, state and local organizations, initially, Flagstad claimed that Elodea is "an important, uniquely beneficial plant" in ecosystems where it occurs naturally to Alaska. "It's a pretty plant," she said. Her Sand Lake newsletter went further than that, another person invited to talk to the municipal commission was Lindsey Flagstad, an ecologist

to be an invasive weed (to her satisfaction) Stencel opposes eliminating it from Sand Lake. Fortunately, contradicting the state agency's memorandum of understanding, until Elodea is proven to be an invasive weed (to her satisfaction) Stencel opposes eliminating it from Sand Lake.

What Stencel said next compounded the commissioners even more: she claimed that Elodea was native to Alaska. "It's a pretty plant," she said. Her Sand Lake newsletter went further than that, Cleatinghouse, a collaborator of several federal, state and local organizations, initially, Flagstad claimed that Elodea is "an important, uniquely beneficial plant" in ecosystems where it occurs naturally to Alaska. "It's a pretty plant," she said. Her Sand Lake newsletter went further than that,

Flagstad from being a paranece, adding bacteria to Sand Lake to accelerate the decomposition of more than 0.5 pH units from natural conditions, because high concentrations of ammonia are toxic to fish. Far from being a paranece, adding bacteria to Sand Lake to accelerate the decomposition of

Sand Lake used for floatplane and boat access, has a pH of nearly 12. That's higher than the pH of ammonia.

Stencel claimed the water in Brentwood Canal, a shallow channel flowing from the east end of Sand Lake used for floatplane and boat access, has a pH of nearly 12. That's higher than the pH of ammonia.

Oddly, the website never even mentioned invasive species. It did refer to "nuisance weeds," but a website even knowing it in many cases. That ought to raise the hair on the back of your neck.

The website didn't mention "specific microbes," like Stencel promised, unless she considers switches from treating ponds with chemicals to using his proprietary bacteria without the concentrations and at the right price. The author of the website claimed his company had weed isn't necessarily invasive, it may just be a plant growing in the wrong place, like fireweed in wetland patches. Astonishingly, the website's author concluded with the statement that this weed isn't necessary invasive, it may just be a plant growing in the wrong place, like fireweed in wetland patches. Oddly, the website never even mentioned invasive species. It did refer to "nuisance weeds," but a website even knowing it in many cases. That ought to raise the hair on the back of your neck.

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tip waders.

conservative vote with another candidate. It seems as if Stencel is letting her political persuasion cloud her scientific perspective. You cannot stuff a politician and a scientist into the same party or

Stencel ran for the Anchorage Assembly in 2007. She stepped down to avoid splitting the

agencies.

adamantly refused to take the money. Now Stencel isn't even listening to expert advice from other conservation districts to hire invasive plant coordinators, most did. But the Anchorage District

For example, several years ago, when federal funding was available for Alaska's soil and water

science seems to be taking a back seat in the operation of this quasi-governmental agency.

With conservation and development through technical, financial, and educational programs,

Supporting self-governance and private property rights, to assist landowners and land managers

rational, non-emotional, science-based project management. In fact, the agency's mission is:

In its Sand Lake newsletter the Anchorage Soil and Water Conservation District lauds itself for

## Political science is not a natural science

uncertainty and fear of federal overreach for political purposes.

Clearly, it's the latter. Stencel is no scientist, and she appears to be attempting to exploit

eradicate the weed before it spreads out of control.

If Eelodea's an invasive species, it's a looming statewide catastrophe -- and now is the time to rid the study, it for a few more years, and by a few uprooted methods to reduce, but not eliminate,

Alaska and it is a potential scourge to fish and fishers statewide. If it's a local problem, we can catch it, but if it's a statewide issue, we have to catch it all. Eelodea is not native to

Eelodea is a native species and is, at worst, a local issue in several lakes, or the weed is not native to

Much of this back and forth boils down to a choice between two management strategies. Either

sample size of one, Bosch pointed out, is pseudo-science.

during summer 2012, and Delong Lake was not treated with rotenone. Basign a broad claim on a buying that one either. He later told me that the Eelodea in Delong Lake also added a lot of biomass

lake, decomposes, and add incelibly high-value fertilizer, to the lake's sediment. Bosch wasn't

with this timeframe. Her Sand Lake newsletter stated bluntly, "Dead fish fall to the bottom of the homewaters have told her beginning of the explosion of Eelodea overgrowth coincides

Failing to gain traction with that response, Stencel blamed another culprit. In 2009, Fish and Game

Eelodea.

The lake has native aquatic plants that, decades later, homeowners could easily confused with

unlike the any Sand Lake property owners were adept at identifying aquatic plants in the 1960s.

Eelodea was present in Sand Lake by the 1960s. But "present" doesn't mean abundant, and it's

Stencel effected that argument by claiming that, based on her interviews with property owners,

a lag between its introduction to a new environment and subsequent rapid spread.

Flagstad disagreed. The weed was first documented in Sand Lake in 2011. That didn't give it many

Lake Hood is still Eelodea free.

After all, she said, floatplanes fly from Sand Lake to Lake Hood all the time and, as far as we know,

She told the committee she doesn't personally believe Eelodea can be transported by floatplanes.

Stencel didn't agree, but she changed the subject by dropping another incendiary bomb.

river, Bosch remarked.

Flagstad and Dan Bosch, a fisheries biologist with the Alaska Department of Fish and Game, were

water flow, increasing the accumulation of organic matter and letting the "native" Eelodea get out of

dramatically and rolled her eyes -- had allowed the lake's outlet to be altered, which slowed the

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## 0 Comments

columnist.

Former Alaska wildlife biologist Rick Simnot retired in 2010 after

Author

Rick Simnot

nearly 30 years in the field. He's now a regular Alaska Dispatch News

About this

Eloida	Weed	Lakes	Black Lake	Floating	Chena Slough	Sand Lake	Lake Hood	Outdoors	Commentary
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issue of this kind and magnitude.

evident that the agency doesn't have the expertise to deal with a biological, social, and economic

the loess soil and water conservation district is in the driver's seat. It's becoming increasingly

all designed to tidy this potentially devastating invader in the bud. Unfortunately, in Anchorage,

suggested solutions, and tried to facilitate communication between scientists and land managers --

offering advice and techniques. Experts in these agencies have identified the problem,

Far from overreaching, the federal agencies and universities involved in the Eloida issue are simply

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