

Elodea: A New Threat to Alaskan Waters

An overview of 2011 management activities in Interior Alaska

BACKGROUND:

Elodea nuttallii is an invasive aquatic plant that was recently found growing in the Chena Slough in Fairbanks, Alaska. This plant has the potential to impact fish rearing and spawning habitat. It was likely an accidental introduction into the slough, possibly by the dumping of an aquarium. The Elodea Steering Committee, a group of concerned citizens and agencies, began meeting over the winter to prioritize projects for 2011. Establishing the distribution of *Elodea* and conducting initial control trials were identified as the main goals of the year. A mapping project was also completed to evaluate grayling spawning and rearing habitat, as well as document precise *Elodea* infestation levels within the slough.

Survey Results

Location Type	Number of Sites	Sites with Elodea
Float Pond	5	0
Boat Launch	20	2
Road Crossing	94	22
Gravel Pit	23	0

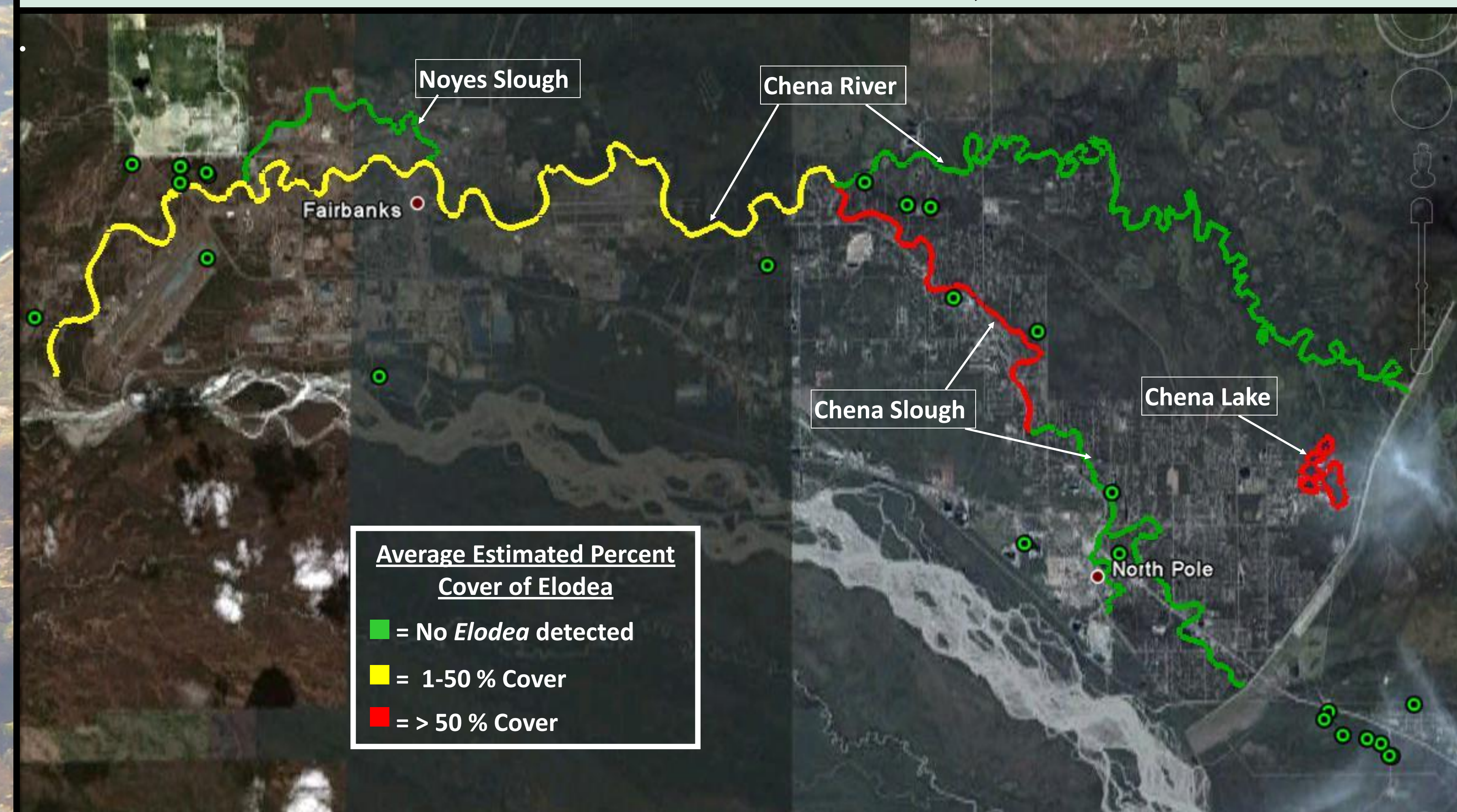
Data was collected at point locations on 29 water bodies. These locations were selected because they are high use. If found in some areas, such as float ponds, there would be a high probability of spreading *Elodea* to new locations.



Left:
Elodea
caught on
a canoe
paddle
Below:
Spring ice
covered in
Elodea



Elodea nuttallii infestations in Fairbanks, AK



Survey locations not pictured: Harding Lake, Birch Lake, Quartz Lake, Clearwater River, Tanana River, Birch Creek, Chatanika River (no Elodea found at any of these sites)

Control Trials at Chena Lake

Over the summer, a control trial was set up by a team of SCUBA divers. Techniques included hand pulling, clipping, and installation of landscape fabric. This project will continue through the winter and will give valuable information on effectiveness and feasibility.

Chena Slough Mapping Project



The crew worked from July to September collecting data at sites in Interior Alaska. Not only was information collected on *Elodea* density, but also on stream characteristics and other plant life.

Utilizing tablet computers, the percent cover of *Elodea* in the slough was mapped to help with future control efforts. Information was also collected following a 1997 study documenting grayling spawning and rearing habitat.



Thank you to all our partners!