

## Internet Landing Installed Device Sensor (I-LIDS)

**Aquatic Invasive Species (AIS) cost lake groups millions of dollars annually to manage.**

**Zebra mussels carried by plants on trailers threaten property values and lake enjoyment.**

**2500 hours of daylight launch inspection is required per season to prevent AIS infestation.**

The I-LIDS is a self-contained, solar powered system installed at boat ramps to reduce risk of Aquatic Invasive Species (AIS) through video inspection of boats and audio education of boaters.



### Aquatic Invasive Species

Eurasian watermilfoil, Curlyleaf pondweed, Flowering Rush, Hydrilla, Zebra mussels, and now Starry Stonewort are infesting our lakes.  
**Most inspection covers only a fraction of time needed!**

The I-LIDS provides an efficient method to help reduce AIS risk...

### Standalone deployment

Solar, 3G/4G cellular, high resolution camera, vandal resistant.

### 24x7 Video Inspection

Remote camera captures high resolution video to secure website.

### Efficient Review

Playback from browser of videos with condition, date, time, and boat.

### Remote Support

Network and camera changes can be made remotely.

### Audio Education

Recorded message tells users to remove plants and animals.

### Enforcement Evidence

Suspect AIS violations are identified and sent to enforcement.  
Tickets and warnings have been issued.

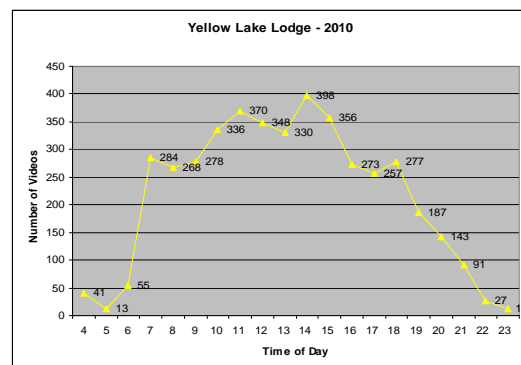
### Positive Reinforcement

Boaters inspecting receive gift certificates to recognize effort.

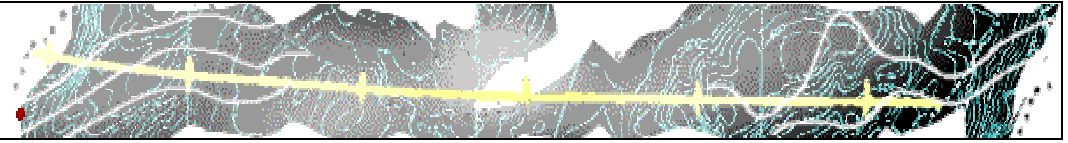
**Protect your property value, water quality, recreation, & fishery by changing boater behaviors**



**High resolution remote inspection**



**Graph peak periods of use**



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### Installation:

There are several components that have to be in place for the I-LIDS to remotely and securely transfer video images to the Video server and make them available for review.

**Secure Footing:** To prevent movement of the I-LIDS it is secured into the ground allowing it to be rotated to different viewing angles and protecting it from impact by a vehicle.

**Wireless Access:** Using 4G networks or existing internet services the I-LIDS gains access to the Internet to store videos at remote servers.

**Sign:** A warning sign is designed and installed notifying launch users that they need to clean off weeds from their boat and trailer. This sign can be customized with the Lake Association logo.

**I-LIDS:** Last, the I-LIDS housing and electronics sleeve is installed, configured, and tested to assure that video is properly networked. Trip points, video duration, size are properly configured.

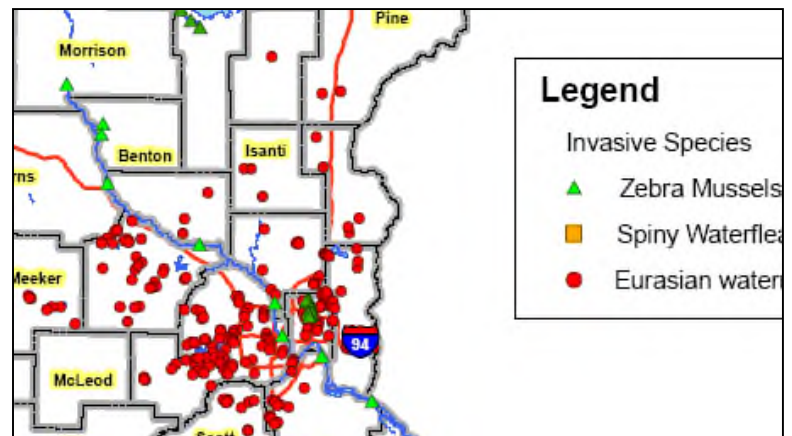


### Video based evidence compels boaters to comply with AIS ordinances

- Burnett County, WI: 5 AIS citations + 10 cleanoff awards produced compliance
- Lake Minnetonka, MN : Boaters launching weeds dropped from 7.4% to 0.13%

- Video inspection
- Audio reminder
- Point of use education
- Launch statistics
- Remote support
- Complete review
- Enforcement evidence
- Positive reinforcement

### Your lake is one launch away from impact.



Call or email us for video samples, a free risk calculation, or find out how your lake can prevent AIS.

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