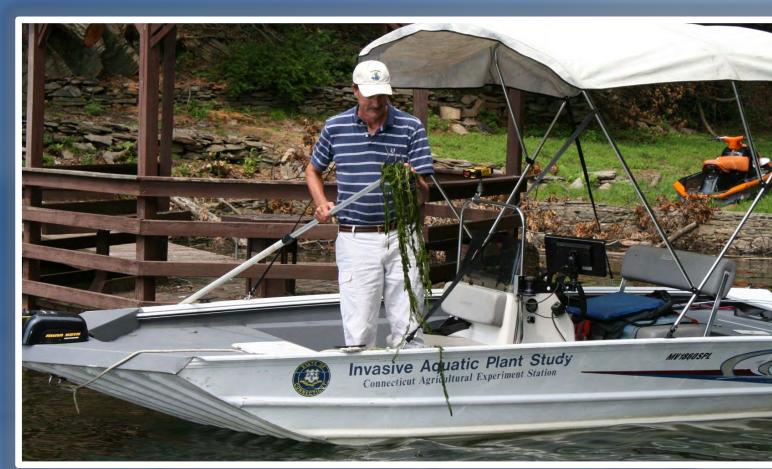
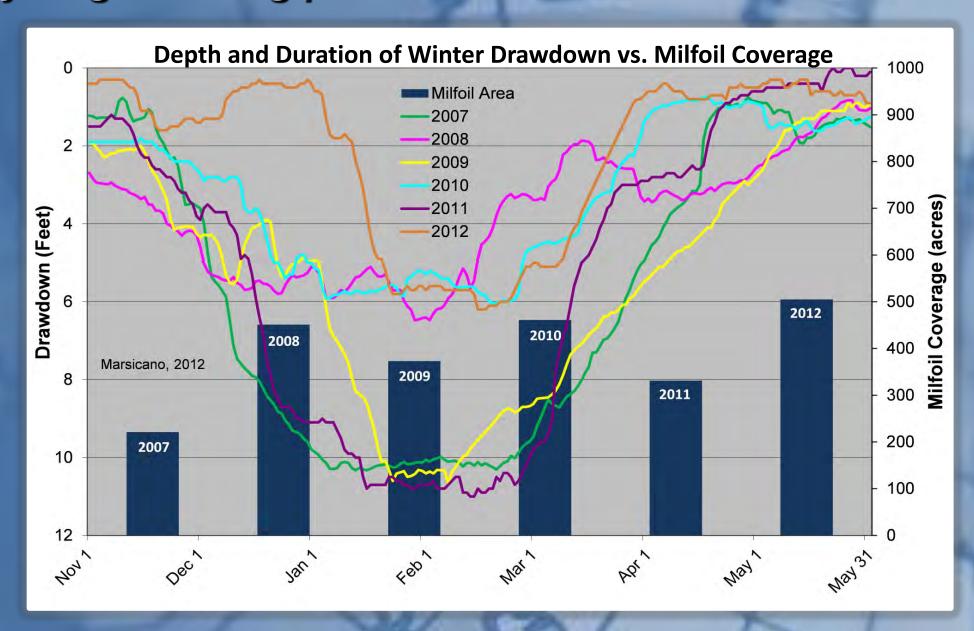
Using GIS to Monitor Invasive Plants In Candlewood Lake Connecticut Agricultural Experiment Station Department of Environmental Sciences Gregory Bugbee and Jordan Gibbons



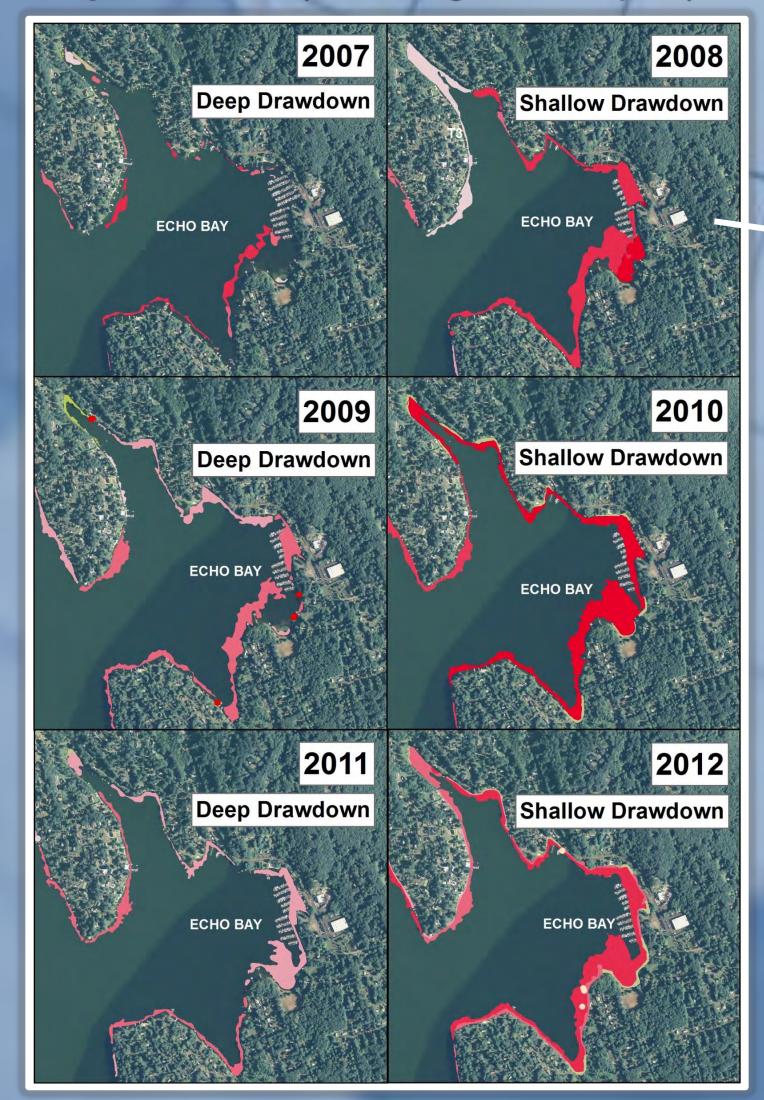
Candlewood Lake is Connecticut's largest recreational lake. It is also used to produce electricity via a hydrogenerating plant



Using geospatial technology, we survey the lake each year and compare the acreage and abundance of invasive plants to the depth and duration of the winter drawdown

							_
		Area (acres)					
Scientific Name	Common Name	2007	2008	2009	2010	2011	2012
Myriophyllum spicatum	Eurasian watermilfoil	221	451	373	461	331	505
Najas minor	Minor naid	12	11	26	21	19	32
Potamogeton crispus	Curly leaf pondweed	<1	<1	1	1	<1	0
Shaded columns indicate deep drawdown years							

Three invasive plants are present: Eurasian watermilfoil (Myriophyllum spicatum), Minor naiad (Najas minor), and Curly leaf pondweed (Potamogeton crispus)



The deeper drawdowns in 2007 and 2009 resulted in reduced area and abundance of Eurasian watermilfoil compared to the shallow drawdowns of 2008 and 2010.

For further information visit our website http://www.ct.gov/caes/iapp

