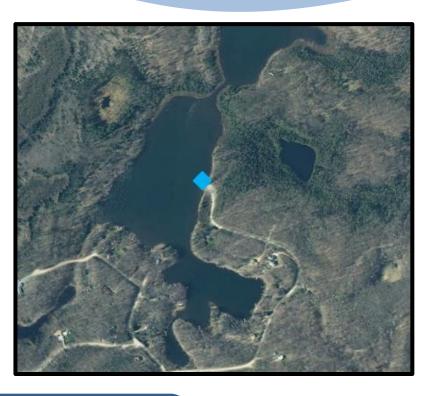
Citizen Lake Level Monitoring 2015 Neva Lake Report

Dave Tlusty

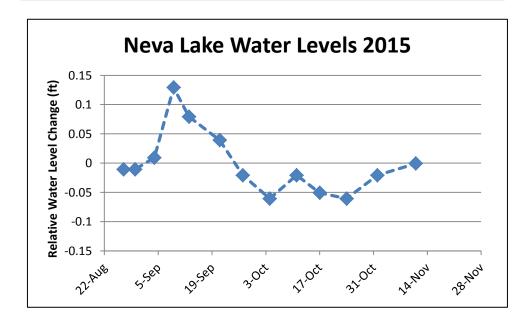
Goal: Long-term lake level monitoring to understand natural lake level fluctuations and guide management decisions

South Neva Lake Quick Facts	
Swims Station ID	10044058
WBIC	1015200
County	Langlade
Area	33 Acres
Max Depth	23 feet
Hydrologic Lake Type	Seepage

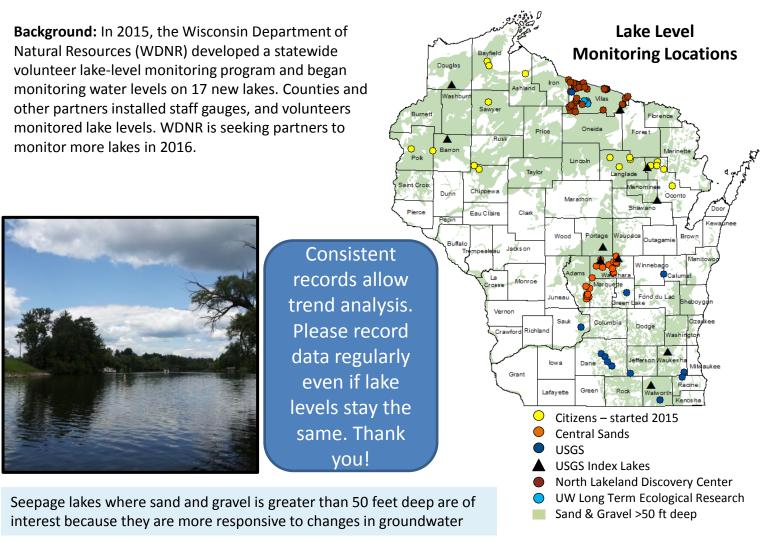


2015 Results

Most of the 17 lakes monitored in 2015 fluctuated 0.2 to 0.5 feet from July to November. The water level on Neva lake changed 0.19 feet from its highest to lowest level recorded. The graph below shows water levels on Neva Lake compared to the lake's seasonal average. For example, on September 9, the lake level was 0.13 feet above average.







Why it Matters: Long-term data can address growing concern for lake health and recreation

brought on by drought, groundwater withdrawals, precipitation and climate change.

Lake and groundwater well records in northern Wisconsin show that lake levels oscillate in unison every ~13 years and have been declining since 1998. Citizen monitoring will expand the number of lakes with long-term records and enable us to recognize future trends across the state.

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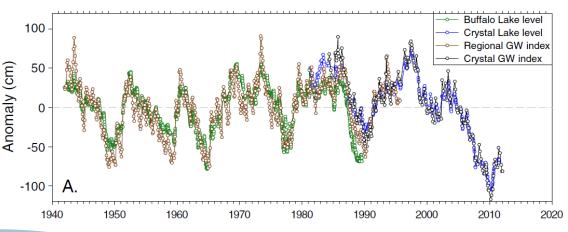


Figure from Watras et al. 2013 Geophysical Research Letters. GW = groundwater monitoring wells



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