
THE SINGLETARY SUN

Dedicated to the Preservation and Protection of Lake Singletary and its Watershed

President's Message

This summer will go down as one of the best in recent years (days and days of hot sunshine). This past summer provided us with more "Lake" days than any summer in the past 6 or 7 years. Our association has had another successful year with nearly 100%

membership participation. Thanks to the hard work of our membership committee we are receiving contributions from nearly all property owners. These revenues have been used this year for our usual weed treatment programs as well as a very detailed weed survey, which will be used as a benchmark for future weed monitoring and control. We continue implementing our plan to manage the fanwort problem.

In the near future we should get the word that the new chemical "Clipper" has been approved and we are hoping that we will be using it next summer. While the chemical method has lots of promise for weed control, we have spent considerable time and money developing a new formal drawdown plan that we could use to support a deeper drawdown if we deem it necessary for controlling fanwort and other weeds.

On the social front all of our sponsored programs this year were a great success. Earth day clean up was the best ever leaving us with well-scrubbed lake surroundings. The big surprise was the boat parade with hundreds of people packing the shorelines to watch the event and see our best ever lit boats. Last but not least, the rafting party was once again on a perfect day giving all a chance to socialize and mix it up with all their lake neighbors.

Finally, I would like to take this chance to thank all the board members, past and current, for their endless commitment to making our lake and association the best it can be. See you around the lake!

Tim Vanderlinden – President LSWA



IMPORTANT REMINDER: THE NORMAL YEARLY DRAW DOWN WILL BEGIN AROUND COLUMBUS DAY

Fall Cleanup/Maintenance is Now Underway!

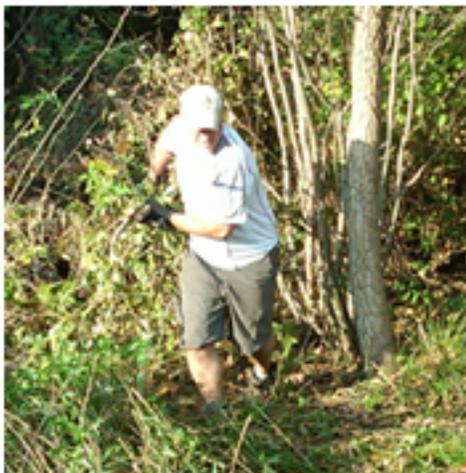
LSWA is will begin their fall cleanup/maintenance activities, anyone interested in volunteering please send email to brian.mellen1@verizon.net and let him know which project you're interested in volunteering for. He will contact you a couple of weeks before the project begins.

The 4 Projects will include:

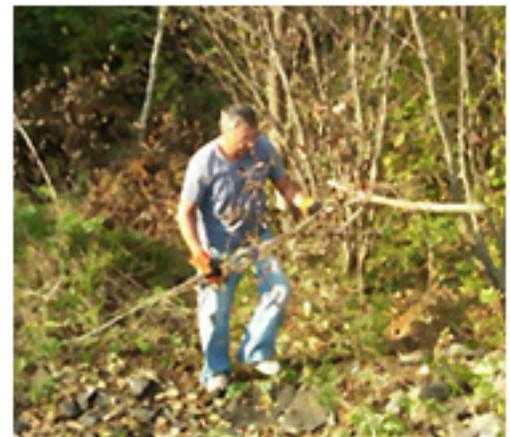
1. Clean up the outlet behind the dam. Very overgrown! This project is already underway.
2. Install Stainless steel rulers at the Gatehouse. (Late October)
3. Replace all rotted wood and install new steel doors. (Late October)
4. If weather permits, Vinylside the gatehouse. (Maybe November)



Gatehouse and its new asphalt roof



Jeff Clark (left) and John Direnzo (right) working hard cleaning up the outlet behind the dam. Thanks to all who helped out with this phase of the project!



Lake Singletary Word Search

F	I	L	H	P	L	O	O	N	I	S	L	A	N	D	A
R	H	G	A	U	F	W	G	U	L	R	L	E	N	S	D
G	A	M	R	K	P	I	D	M	A	I	O	A	Q	W	O
F	R	A	W	F	E	O	R	S	U	C	L	G	C	E	A
H	R	I	E	G	P	S	W	E	L	S	F	H	U	L	T
O	I	N	L	L	M	A	I	N	I	N	L	E	T	S	O
M	S	O	C	A	A	Y	J	N	K	S	Z	P	B	H	W
V	I	U	B	K	C	X	E	O	G	E	L	M	H	P	N
X	C	T	F	G	S	K	C	N	U	L	V	A	P	O	B
W	E	L	I	M	N	J	U	D	L	I	E	R	N	N	E
L	H	E	R	U	O	S	G	J	L	S	H	T	T	D	A
M	O	T	S	V	I	Q	J	W	R	L	I	A	A	K	C
S	U	C	K	E	R	B	R	O	O	K	R	O	Y	R	H
D	S	M	D	F	A	R	E	C	C	A	M	B	P	E	Y
K	E	Q	V	L	M	O	W	G	K	Z	M	R	R	A	H

Boat Ramp

Fire Island

Gull Rock

Harris Ice House

Lake Singletary

Loon Island

Main Inlet

Main Outlet

Marions Camp

Sucker Brook

Sunken Island

Welsh Pond

Did you find all the words? Now try to find these words on the Lake Singletary map at <http://lakesingletary.org/About-The-Lake.php>

Well Survey Update

The LSWA Well Survey is 90% complete. Thanks to all of you who participated in completing the survey. It is greatly appreciated.

For those who have not completed the well survey, we urge you to do so as this information will be used as part of the drawdown assessment when determining the maximum depth for our drawdown plan. The Well survey form can be downloaded from the LSWA web site www.lakesingletary.org. Select "About Us" on the top menu and click on "LSWA Documents"

SUMMER 2010 LAKE FUN!

Our members sent all of the pictures on this page in. Thanks for all of your contributions! To see your pictures in the next Singletary Sun e-mail them to shariegrant@gmail.com.

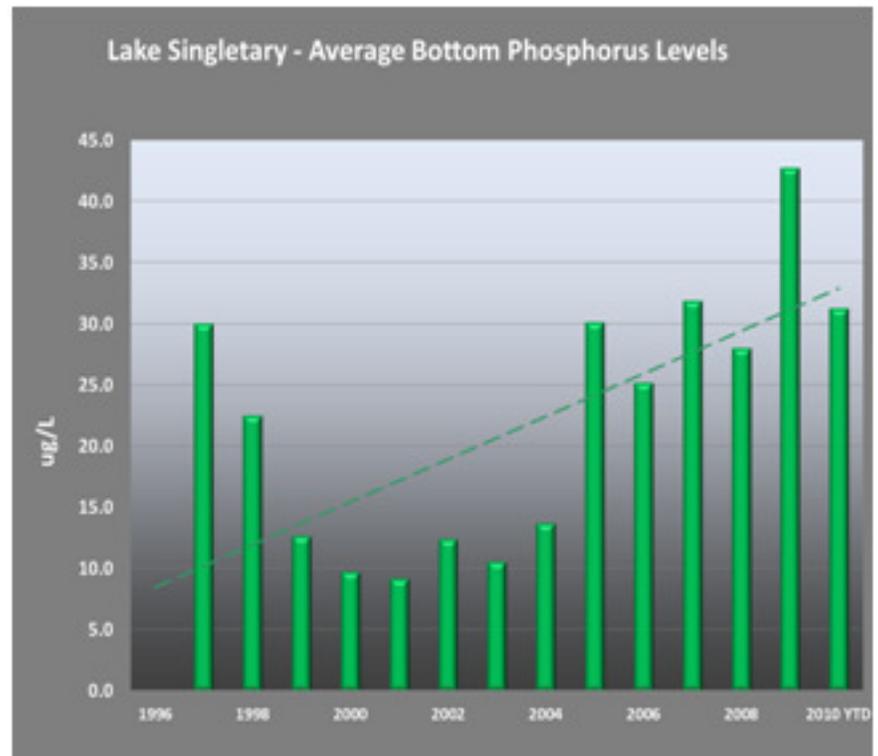


Water Quality Update

This season is our 17th year of volunteer monitoring. Over the years of data collection one notable trend is that dissolved oxygen (DO) at the bottom of the lake is decreasing. Low dissolved oxygen stresses fish populations, especially species such as trout. In summer, when the lake is stratified, fish leave the warm upper layer for the colder water towards the bottom. If there isn't enough oxygen to support them in the lower depths a fish kill can result. A level below 5 parts per million (PPM) is considered detrimental. Our DO levels drop well below that in the summer. In addition, the drop in DO seems to be occurring earlier in the season.

Both natural variation and pollution sources can affect DO concentration. As algae and plants die off at the end of their life span or due to chemical treatment, the organic matter they contain gets incorporated into the sediments. As the sediments decompose, the process consumes oxygen at the bottom of the lake and releases phosphorus. This release of phosphorus plus input from pollution sources such as fertilizer or septic system runoff stimulates plant and algae growth. So you can see it is a vicious cycle.

The ultimate solution is to reduce nutrient loading in the lake. Around the shoreline we have taken a lot of actions, such as retrofitting storm drains, promoting the use of zero phosphorus fertilizer, and encouraging Millbury residents to tie in to the sewer line. We need to continue reducing the degradation of Lake Singletary's water quality by expanding our efforts further into the watershed.



For more information on our water quality monitoring program, visit our web site at www.lakesingletary.org, and click on Water Quality on the Maintenance tab.

By Karen Norlin

Water Level and Drawdown

As you all may remember we were challenged this spring with some extraordinary amounts of rain that caused the lake to be shut down for several days due to high water levels. Who would have thought that all that rain would be followed by such long stretches hot sun and no rain at all? Through it all, once things got under control, the water level was perfect for maximum enjoyment if the lake. We made it through the long dry summer with plenty of water for recreation.

Now its fall and fall means drawdown. The fall drawdown will begin on or about Columbus Day and continue to drop to our historical levels. Hopefully, with some luck we will get a hard freeze before any snowfall and maximize the weed freeze.

Dissolved Oxygen Facts

Reasons for Natural Variation:

Dissolved oxygen concentrations change with lake depth

- Oxygen production occurs in the top portion of a lake, where sunlight drives photosynthesis
- Oxygen consumption is greatest near the bottom of a lake, where sunken organic matter accumulates and decomposes

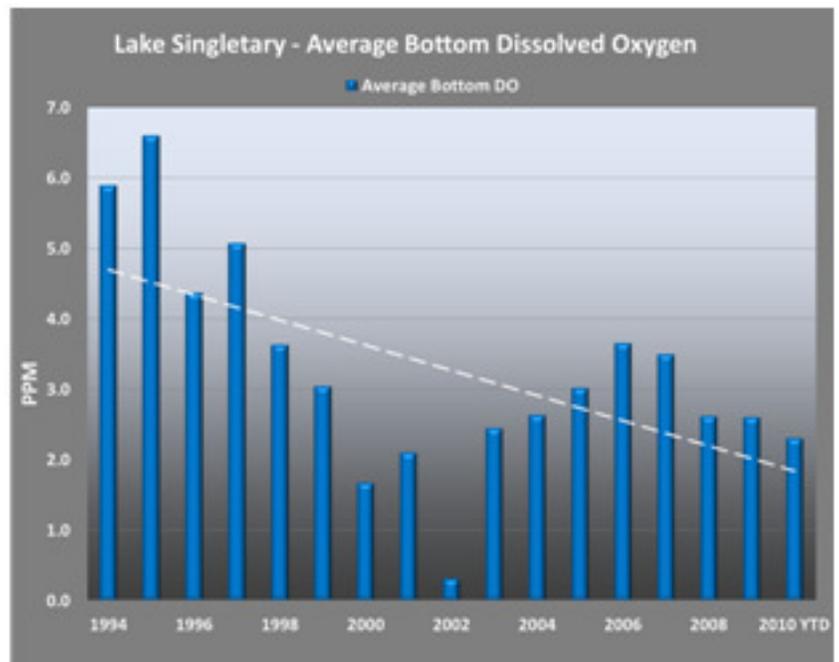
Seasonal changes affect dissolved oxygen concentrations

- Warmer temperatures during summer speed up the rates of photosynthesis and decomposition
- When plants die at the end of the growing season (or during chemical treatment), their decomposition results in heavy oxygen consumption
- Other seasonal events, such as changes in lake water levels, volume of inflows and outflows, and presence of ice cover, also cause natural variation in DO concentrations

Expected Impact of Pollution:

Pollution causes a decrease in average DO concentrations

- Pollution contributes organic matter (like sewage, lawn clippings, lakeshore erosion, and agricultural runoff) or nutrients that stimulate growth of organic matter
- This organic matter uses oxygen during decomposition
- If the organic matter is formed in the lake, for example by algal growth, at least some oxygen is produced during growth to offset the eventual loss of oxygen during decomposition
- However, in lakes where a large portion of the organic matter is brought in from outside the lake, oxygen production and oxygen consumption are not balanced and low DO may become even more of a problem



Effects of anoxia (low oxygen)

- This is most pronounced in thermally stratified systems in summer and under the ice in winter when the water mass is cut-off from the atmosphere
- Anoxia can lead to increased release of phosphorus from sediments that can fuel algal blooms when mixed into the upper (sunlit) zone
- It also leads to the buildup of compounds such as ammonium and hydrogen sulfide (H₂S, rotten egg gas) which can be toxic to bottom dwelling organisms and can cause fish kills

Source: www.waterontheweb.org

Earth Day Clean Up April 24, 2010



Once again a fantastic group of eager volunteers met at the boat ramp on Saturday 4/24/10 to clean up around the lake and its watershed. Of course, we began with enjoying donuts and coffee and socializing with each other. We had great weather and due to the large turnout, we were able to finish in no time! Thanks to all of the following who participated: sue & Sara Macaruso, Vivian and Paul Marcell, Letty Wheelock, Bob Strong, John Silverberg, Wayne Mong, Cindy and John Charest, the entire Mellen family, Kristen and Kevin McCarthy, Dylan Karsen, Lee and Paul Adams, Sue Mong, Bonnie Westerlink, Jennifer Katenes, Rosemary and Mike Salem, Mona and Paul Kawolis, and David Marois. A very special thanks goes out to the youngest person in the group, Alexandra Marois!



SPRING WING DING (Saturday, May 8th, 2010)

This year's spring wing ding was again held at the Dudley Gendron post in Sutton. What a great time everyone had socializing and dancing. All enjoyed the Italian buffet prepared by Brothers II catering of Millbury. The raffle was huge success. A special thanks to our sponsors; from Millbury, Calabria Ristorante, Scales Seafood and Ice Cream, and Longhorn Steak House' from Sutton, the great Canadian canoe & kayak and from Worcester, Linder's Inc., and U.S.A. Marine. A special thanks to Mona Kawolis and the social committee for organizing the event and coordinating the amazing raffles! For those that like to plan ahead, next year's date has already been set for Saturday May 7th, 2011. Hope to see you there next year!



4th of July Boat Parade

Everyone agrees that this year's Fourth of July parade goes down as the best boat parade ever! The boats in the parade were again creatively adorned with patriotic decorations and lights and were filled with enthusiastic and spirited participants. We counted approx. 37 boats in the parade, constant lakeside parties, an inflatable Uncle Sam, a live trumpet player and our youngest entry yet Kyle Bergeson and crew complete with large flag décor! Many lake residents had huge parties where parade watchers on shore participated by waving flags and cheering. Whether you were on a boat or on shore, it was fun for all! Thanks to Greg Johnson for taking most of the following pictures from the shore at the beginning of the parade!





Lake History--Did You Know?

Lake Singletary played an important role throughout American history. During the Industrial Revolution, Lake Singletary (then called Crooked Pond) supplied power to the mills built along the Singletary Stream outlet, formerly called Mill Brook.

In 1720 John Singletary purchased land along the Singletary Stream from Ebenezer Daggett. Shortly after John established the first gristmill in Millbury and later added a saw-mill. John and his son Amos kept these mills in operation for many years. In fact the gristmill (known today as S & D Spinning Mill), is still in operation, making it one of the oldest continuously operating mills in the United States. Rumor has it that the original water turbine is still in the basement of the mill.

Throughout the 1700's and 1800's several more mills were erected along the Singletary Stream, manufacturing goods such as flour, cotton, paper, guns, scythes, horseshoes, and many other farm equipment items. Lake Singletary was also a major source of ice for the Worcester County area when Warren A. Harris built and operated his 2,500-ton Ice House.

E-Mail Address Request

Get on the e-mail mailing list today and receive timely information about LSWA events, meetings, weed treatments, drawdown timing and newsletters! E-mail your information to shariegrant@gmail.com.

Rafting Party August 7, 2010

We had perfect weather for our rafting party this year and had a great turnout! As a special surprise we celebrated Don and Dee Swatiks 40th wedding anniversary, which fell on the day of the party, with a toast of Bud Light Lime and Italian cookies for everyone. They danced to their song on the swim island and were released into the sunset! As the night approached the flotilla of boats released from anchor and did our annual lap around the lake en masse!



2010 LSWA Honor Roll

<p>Paul & Lee Adams Roy & Marilyn Ahlen Bill & Charlotte Bedord Margareta Berg John A. Bergin Ken & Kathleen Bergeron Carl & Penny Bergeson Ed Bettke Paul & Joan Bjork Virginia Bliss Mark Briggs John & Carolyn Brigham Elaine Bryant Brad Bumpus John & Stacy Burl Michael & Rie Poirier Campbell* Thomas Capistrone Dottie Capuano & Shirley Lofgren Norman & Joyce Cardin Paul & Linda Carlson Lee Carman Michael Catino John & Cynthia Charest David, Sherry & Tom Chevalier Robert & Judy Clark Robert & Jeff Clark Joan Poirier Cosentino* James & Amy Craft Helen Largess-Crewe Anne & Sean Cusick Bob & Barbara Daigneault Dan & Mary Daly Alan & Dorothy Dearnley Joe & Kelli Deliso* Joyce De Rosa John & Rose Direnzo Stephen & Theresa Dunne* Mike & Judy Dunne Alan & Ronnie Engstrand John Esler Bill & Jenny Fields Diane Fulten Barbara & Julio Fusaro Greg Gauthier Dana & Diane Giampa Michael & JoAnne Goodfriend Everett & Janet Grahn Nancy Grant</p> <p>*Denotes new members</p>	<p>Travis & Sharie Grant Karen W. Green Conrad & Mary Hagstrom Walter & Joan Hagstrom Tony & Elaine Halpin Janet Hammarstrom Paul & Lorna Hammarstrom Michael & Deborah Hanlan Tom & Marie Haynes David & Deborah Hebert Jon & Donna Heslin Kathleen & David Holt Donal & Dina Jamieson Fred & Nancy Jarvis Pam Jernberg Gordon Johnson Greg & Nancy Johnson Jeff & Suzanne Johnson Russell & Mary Johnson Wayne & Ann Junnila Paul & Mona Kawolis TA & Cindy King Paul Larson Paul & Kathy Laverdiere James & Pamela Lavoie Paul & Diane Lavoie Kenneth & Karen LeBlanc Bob LeClaire Jim & Ruby LeClaire Charles & Lynn Lidz Axel Linder Kenny Linder Alan & Ellen Marcell Paul & Vivian Marcell David Marois Normand & Gloria Marois Lynda Martin & Craig Warneke Garth Maynard John Maynard Kevin McCarthy Patricia McCarthy Theresa McDermott Daniel & Kyrenya Mc Namara Frank Mc Namara Garry & Peggy Melia Garry T& Karen Melia Brian & Laurie Mellen Stephen Mong Wayne Mong</p>	<p>Dennis & Nancy Mulhane Bill & Barbara Nartowt Richard & Karen Norlin Bernice O' Gassian David & Ruth Parker Robert & Ginny Picking Brad & Cathy Pierce Ken & Karen Rapp Frank G. Rourke Alan Rudge David Rudge Ronald & Janet Rudge Richard & Carol Rudman Michael & Rosemary Salem Donald Salerno & Marna Hasz Helen Salmon Mark & Timothy Salmon Lucille & Jack Sampson Tom Scagnelli Jacqueline Shakar & Debra Pinto Holland & Sylvia Shaw* Mark Shirman John Silverberg Ronald Stead Robert Strong & Letty WheeLOCK Dottie Sundquist Don & Dolores Swatik Bill & Wendy Talcott Dominic & Cheryl Triola Fran & Kathy Triola Dana & Dolores Tschirch Steve & Lisa Vaillancourt Tim & Deb Vanderlinden Mark S. Vayo Francis Venincasa Carolyn Wellington Parker & Diane Wellington Bonnie Westerback & Jennifer Kapenas Giles & Lynn Whalen* John & Jeanne Willis Stanley & MaryEllen Wilczynski* Stephen Winchell Beth Winchester Chris & Kellie Windle Terrance B Windle David & Nancy Winn Gregory & Cynthia Wolodkin Elizabeth Sevigny Zerski*</p>
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Thanks to all our paid LSWA members. It is not too late to be a 2010 member

**Send dues to: Robert LeClaire c/o Benjamin Ins.
497 Central Turnpike, Sutton MA, 01590**