

Cub Lake



Looking out over your back yard to see the beautiful view of one of the Bear Lakes can put anyone's stresses at ease. You can start your day off right with an invigorating sunrise, or wash away your daily stresses with a peaceful sunset. Either way, the relaxing benefits to living on one of our beautiful lakes are endless. The sights and smells of fresh lake water can be soothing, and soaking in the cool lake can be refreshing.

Each of the Bear Lakes are unique in their own way. Little Cub Lake is a 14.27 acre lake with 28 residents. The lake holds approximately 33,928,863 gallons of water and is about 102 feet above sea

level. Bear Lake, Asher and Little Bear Lakes flow into Cub Lake which flushes out to Lake Lotus roughly every 28 days. With certain conditions of the lake, you can actually see the swirling flow to the outfall to Lake Lotus, which continues to flow to the Little Wekiva River, and on to the Saint John's River. Cub Lake is a small peaceful lake with all the benefits of beautiful views and many aquatic and migrating birds. Most of the boat traffic on the lake consists of floating docks, pontoon, an occasional jet ski with neighbors enjoying the lake with their families.

Continued on page 2

BLPA UPCOMING EVENTS

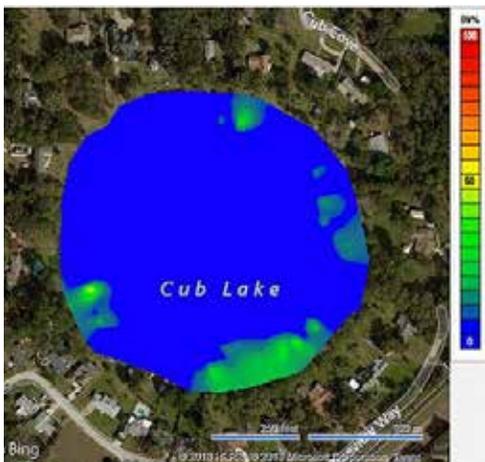
BLPA BBQ/POT LUCK APPRECIATION DINNER

You are cordially invited to join the Pot Luck Dinner
Thursday, November 15, 2018
 St. Andrews Church Fellowship Hall
 9913 Bear Lake Rd.
 6:00 pm

Enter to win the **"Best Dessert Contest"** for all you bakers—bring your family's favorite dessert to be judged and win a prize for the best dessert!

We encourage you to also invite a neighbor and meet others in the Bear Lake Community. BLPA will be providing all the Bar-B-Q chicken and pulled pork and beverages. If you can plan to bring a side dish or dessert for the Pot Luck dinner, it would be greatly appreciated. See back page article for more details!

Bear Lake Holiday Boat Parade
 Save the Date: **Saturday, December 8, 2018**
 More info and handouts to come.



Submerged Aquatic Vegetation (SAV) Mapping of Cub Lake

October 2018: 1.9 acres of (SAV) Submerged Aquatic Vegetation
 Cub Lake is a 14.27 acre lake
 (See page 2 for additional information on Cub Lake Study)

For Bear and Little Bear Lake SAV Maps, see www.blpa.net April 2018 newsletter.

The submersed species found by Seminole County Water Quality Staff during their report in Cub Lake include; bladderwort to a depth of 7 feet, road grass to a depth of 4 feet, lemon bacopa of to a depth of 3 feet, musk grass to a depth of 4 feet, southern naiad to a depth of 7 feet, stonewort to a depth of 3 feet and eelgrass to a depth of 3 feet. Bladderwort was the dominant species found. Overall there has been a reduction the biomass of submersed species. However Cub Lake still retains a good amount of diversity in the submersed community.

Submerged Aquatic Vegetation (SAV) Mapping of Cub Lake

At the request of the Bear Lake Preservation Association (BLPA), Seminole County Watershed Management Department (SCWMD) conducted mapping of the SAV in Cub Lake using BioBase. While on the lake, the SCWMD's depth finders passively collect data and store it to an SD card (like the digital memory cards typically used in digital cameras and other portable devices). Once all the data is collected on Cub Lake, SCWMD uploads the information to BioBase's computer network. The software then evaluates the data collected using custom acoustic algorithms, GIS tools, and mathematics. The results are interactive layered maps and standardized reports

of Cub Lake. Why Map? Invasive Plant Monitoring Eradication Measurements Communication Tool Construction and Excavation Aquatic Weed Control Grass Carp Stocking. The SAV mapping data on Bear, Little Bear, and now Cub Lake, provides a base map to observe carp progress on removing submerged vegetation.

WHY MAP? It will show the changes in the lakes' vegetation over time which will provide a guideline for lake management. The history of data collected for more than twenty-eight years by BLPA and the data collected by SCWMD will be an invaluable tool to preserve the Bear Lakes.



Cub Lake

Continued from page 1

Florida LAKEWATCH is the only research program gathering monthly data to study a large number and wide variety of Florida's lakes. The Bear Lake Preservation Association is fortunate to have three

of our four bear lakes monitored monthly by volunteers to ensure and maintain the quality of all our beautiful lakes for generations to come!

Lakefront Residents
How important is your lake to you?
The BLPA will be knocking on your door this month to find out!



ADVERTISE HERE!

Do you have a business? Would you like to advertise in the next BLPA Newsletter?
Full-Page Ad \$100 • Half-Page Ad \$50 • Business Card Ad \$30
If so, please contact Judy Ihrig for details at 407-292-4632

CLASSIFIED

Do you have a lake related item "For Sale?" If so, consider advertising in the next BLPA Newsletter - Business Card Size is \$15
Judy Ihrig for details at 407-292-4632



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Lake Asher Restoration Continues

On August 28th, Seminole County planted native shoreline vegetation along the eastern half of Lake Asher with Brian Gravatt (pictured) owner of Forever Native Nursery. As part of the MSBU, and continuing the restoration of Lake Asher, the plantings are to reduce harmful nutrients from entering the lake.

Seminole County volunteer coordinator Elizabeth Stephens writes about the Lake Asher Volunteers: We greatly appreciated the 17 volunteers who joined us for the Lake Asher Restoration event on Saturday, September 15th, 2018. Special thanks goes to Summit Church, our SERV site captains and our hosts, the Lake Asher residents. Together, we planted 2,600 native shoreline plants (duck potato, pickerelweed, golden canna, fire flag, iris, soft rush, and Crinum lily), and removed several bags of trash. We truly appreciate all of your hard work! You have all helped to improve the water quality of Lake Asher, restore important wildlife habitat, and beautify the community! Lake Asher is part of the Little Wekiva Watershed.



Real Estate Update

Provided by Susan Burton, Realtor®

The Real Estate Market is very active and strong right now. Interest rates have gone up but not significantly so it is a great time to sell or purchase. Happy Fall and Cooler Temperatures.

Active Listings

6245 Linneal Beach Dr	\$729,000
5711 Bear Lake Circle (6 bdr/4 ba).....	\$1,165,000

Sold Listings

3436 Holliday Ave.....	\$530,000
9800 Bear Lake Rd.....	\$749,000
5711 Bear Lake Cir.....	\$800,000

Other Active Listings

6022 Linneal Beach Dr	\$295,000
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Other Sold Listings

6625 Bear Lake Terr.....	\$342,000
6072 Linneal Beach Dr	\$260,000
6134 Linneal Beach Dr	\$260,000
1445 Rose Terr	\$240,000
6092 Linneal Beach Dr	\$238,500
2829 Floral Way	\$218,000
2848 Neil Rd.....	\$217,000

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Lake Cleaning • Beach Front Designs

Lake Cleaning:

- Removal of all weeds by root – Jet-pumped out: cat-tails, eel grass, torpedo, etc.
- Leave aquatic plants to create clean beach front designs; reduces bacteria levels.

Dock Cleaning:

- Pressure washing and Water Proofing

Landscape:

- Clean-ups/Maintenance
- Design & Install
- Tree Trimming

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Bear Lake is Back!

The water quality has finally improved since the Lake Asher flush of muddy water and debris into Bear Lake occurred in June of 2017 and again with Hurricane Irma in September 2017. The water clarity lowered to only 6'.

With only 7 inches of rain in September and 1 and 1/2 inches of rain in October 2018, Bear Lake has finally returned to a nice 10' water visibility. The surface water temperature also lowered from 87 degrees to 83 degrees and algae is disappearing.

Scientific data presented in the Bear Lakes Hydrologic/Nutrient Budgets and Management Plan indicated stormwater to be the largest pollution contributor to the Bear Lakes. Stormwater carries loads of nutrients from LAWN FERTILIZERS (phosphorous and nitrogen) which directly feed algae blooms.

It is great to see the carp are slowly reducing the eelgrass and the water clarity has increased back to the 28 year average of 11 to 12 feet. That is 28 years of the BLPA fighting to "Keep Clean Lakes Clean!"



Little Bear Lake Update

2018 has been a very bad year for weeds and algae in Little Bear Lake. Many of the homeowners have been working hard to remove as much vegetation as possible. This is not an easy task; we start with a rake to get the eel grass and larger debris out and then, for the floating algae, we use a pool skimmer. The algae is full of water and needs to be compressed to get it to release the water. We have drying racks for the eel grass and that helps too. Then we put it in garbage cans and take it out for yard pickup.

Some have tried burning it but that is stinky and some have tried to compost it but there is too much and you end putting it in the yard waste for pickup. Because of the weight make sure you only fill your cans 1/4 full or less so it is manageable and does not destroy your garbage cans.

If the floating weeds, eelgrass and algae is not removed, it rots, falls to the bottom and the nutrients are recycled. It is hard work, but every can of floating biomass we pull out makes a significant long term difference on keeping a clean lake clean.

This makes it all worth it. Get outside and cleanup your lake front.



Florida LAKEWATCH...

The Bear Lake Preservation Association has 3 volunteers monitoring Bear, Little Bear and Cub Lakes. Some have collected monthly water samples for 28 years.

Florida LAKEWATCH is a citizen volunteer lake monitoring program that facilitates "hands-on" citizen participation in the management of Florida lakes, rivers and coastal sites through monthly monitoring activities.

Florida's Lake Regions: Coordinated through the University of Florida's Institute of Food and Agricultural Sciences/SFRC Fisheries and Aquatic Sciences, the program has been in existence since 1986. In 1991, the Florida Legislature recognized the importance of the program and established Florida LAKEWATCH in the state statutes (Florida Statute 1004.49.). LAKEWATCH is

now one of the largest lake monitoring programs in the nation with over 1800 trained citizens monitoring 600+ lakes, rivers and coastal sites in more than 40 counties. Volunteers take samples to collection sites located in 38 counties. Bear Lake and Little Bear Lake joined in 1991, while Cub Lake joined in 2014 and Lake Asher is sampled by Seminole County.

Florida LAKEWATCH publishes a newsletter several times each year (newsletter) and a variety of aquatic-related informational circulars (circulars) in pdf format which can be downloaded. Bathymetric maps have been produced of many of the lakes and can be downloaded for your use (maps). Lakewatch water chemistry data are available for

Continued on page 5

LAKEWATCH and Rainfall Data for the Bear Lakes

	Date	Rainfall	Clarity Level	Water Level (Above Sea Level)
Bear Lake	6/18	2.35"	7'	103.44
	7/18	7.8"	7.5'	103.7
	8/18	10.6"	6'	104
	9/18	7.5"	6.5'	103.65
	10/18	1.5"	10'	103.54
Little Bear Lake	6/18	2.35"	11'	104
	7/18	7.8"	11'	103.9
	8/18	10.6"	10'	104.2
	9/18	7.5"	11'	103.9
	10/18	1.5"	10.5'	103.81
Cub Lake	6/18	2.35"	8'	101.1
	7/18	7.8"	8'	101.2
	8/18	10.6"	8'	101.4
	9/18	7.5"	6'	100.6
	10/18	1.5"	9.5'	100.2

Note: *Rain data in this chart reflects the rain amounts collected during the time period from the last month's LAKEWATCH data collection date to the next month's data collection date, and not for the month itself.

Florida LAKEWATCH...

Continued from page 4

downloading by County (data).

Florida has over 7700 lakes larger than 10 acres and probably more than 100,000 smaller bodies of water. Detailed scientific information exists for less than 10% of these lakes. Consequently, before LAKEWATCH, researchers and government agencies charged with managing the lakes had limited data on which to base their strategies. Florida LAKEWATCH enabled the public to be involved in a cooperative teamwork approach to solving lake quality problems, vastly increasing the amount of data generated each year. The information generated from this program is made available to anyone who wants it, including the volunteers themselves, other interested citizens, lake management groups, schools, as well as government and regulatory agencies. Most of the lakes accepted into the program had never been monitored before.

Florida LAKEWATCH provides citizens with educational material to foster a better understanding of Florida lakes, which is essential for developing effective lake management plans. LAKEWATCH staff produce and make available bathymetric maps of many lakes, circulars on many lake-related topics, and send or post online newsletters several times each year. Water chemistry monitoring data are available for downloading by county (data). It also provides a network for people to work directly with lake management professionals, allowing each to learn from the other.

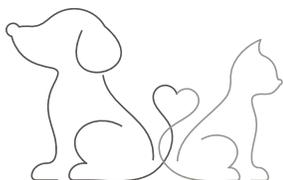
Florida LAKEWATCH was created by the state legislature in 1991 (Florida Statute 1004.49.) to: enhance the level of scientific knowledge available about Florida lakes, to help citizens and lake users understand and manage their lakes, and to develop an educated, well-informed constituency



The BLPA members present a check to Florida LAKEWATCH for \$500 to assist in the Graduate Student Research supporting LAKEWATCH at the Seminole County Annual LAKEWATCH Meeting in July.

Nancy Dunn, Bear Lake LAKEWATCH volunteer hands a check to Regional Coordinator Jason Bennett. Present were (left to right) Dan Willis-Fl. LAKEWATCH Coordinator, Sandy Brown, Jay Goebel BLPA President and Janet Brown, the Brown's are volunteers on Little Bear Lake.

To view the newsletters by Florida LAKEWATCH:
<http://lakewatch.ifas.ufl.edu/newsletter.shtml>



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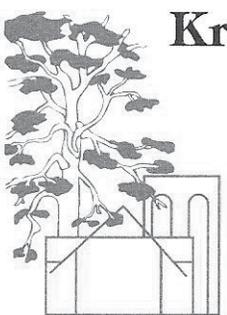
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Sunday School: 10:30 am

Bear Lake Preservation Association Accomplishments 2017-2019

Dear Resident:

On behalf of the Bear Lake Preservation (BLPA), we want to take this opportunity to thank you for your continued support and participation. The strides we have made this year in preserving the Bear Lakes Watershed are due in large part to your participation, interactions and continued contributions.

Some of the accomplishments this past year by BLPA will continue in 2019 and include:

* BLPA's continued involvement with Seminole County with five major preservation projects planned/funded by the County to help prevent and remove future phosphorous loads in the Bear Lakes. The restoration of Lake Asher is well underway and continues to move forward. Seminole County is due to begin the Alton Drive Pond project this year.

* Working with Seminole County regarding a solution to the eelgrass problem at the Bear Lake drain/outfall. County engineers are working on a new barrier design.

* BLPA Ecology Committee continues to encourage the County to follow up with additional lake data collection after the Nutrient Study. Submerged aquatic vegetation Bio Base assessment and mapping, performed by Thomas Calhoun, has been completed on Bear Lake and Little Bear Lake, Cub Lake will be completed later this year. The information collected will be used to determine the reduction or increase in submerged aquatic plants, giving us a guideline for future lake management.

* Continue to monitor eelgrass/carp on the Bear Lakes and work with water quality agencies when necessary. FWC permits for carp were amended for Bear Lake and Little Bear Lake. Additional carp were released into both lakes this year.

* Working with Seminole County Sheriff's Range and Water officers on communication and education of water craft safety and operation.

* BLPA will continue to maintain a strong relationship with University of Florida Lakewatch. Monthly collection of water samples, water temperature readings, water clarity, nutrient and algae sampling and observations on the Bear Lakes are to continue indefinitely.

* All of the above mentioned accomplishments continue to improve water quality in the Bear Lakes and the waters entering the Wekiva River Basin.

* BLPA as a whole has earned the respect from water quality agencies over the years including Department of Environmental Protection, Environmental Protection Agency, St. Johns River Water Management District, UF Lakewatch and Seminole County government. We will continue to work closely with these agencies.

Thanks to you, our supporters and volunteers, the projects and challenges in 2017/2018 were tackled together and continue to move towards resolution and completion.

We look forward to your continued support in 2019 to ensure the current and future protection of the Bear Lakes Watershed for generations to come. Please complete the enclosed BLPA 2019 Contribution/Change of Contact Information Form and return it to us. BLPA is a tax exempt, non profit 501c3 organization (EIN 59-3115526). Contributions may be tax deductible. Thank you for your continued support.

Bear Lake Preservation Association President, Jay Goebel



(Bear, Little Bear, Cub, and Lake Asher)

BLPA 2019 DONATION FORM/ CHANGE OF CONTACT INFORMATION

BLPA, PO Box 162605, Altamonte Springs, FL 32716-2605

Please make your check payable to "BLPA":

\$85.00.....Requested Donation-BLPA Contributor \$50.00.....Requested Donation - BLPA Senior (62+)

Please mail this form and your payment to BLPA, PO Box 162605, Altamonte Springs, FL 32716-2605

You can easily contribute or make donations online by using a credit card, your checking account, or PayPal, just go to www.blpa.net and click DONATE!

PLEASE CHECK: New Contributor(s) Current Contributor(s) Change of Contributor(s) Contact Information

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- Serve as a Board Representative Serve as a Board Supporter Serve on a Current Committee
- I prefer to be contacted by: Home Phone Cell Phone Email

BLPA is a 501(c)(3) tax exempt organization. All financial contributions to BLPA are tax deductible. BLPA will provide a receipt upon request for your donation. Under the new Obama Administration Ruling for 501(c)(3), social security or personal information will not be provided to the IRS for any past or future contributions made to this organization.

BLPA UPCOMING EVENTS



You are cordially invited to join the Pot Luck Dinner
Thursday, November 15, 2018

St. Andrews Church Fellowship Hall • 9913 Bear Lake Rd. • 6:00 pm

Enter to win the

"Best Dessert Contest"

for all you bakers—bring your family's favorite dessert to be judged and win a prize for the best dessert!

We have invited: Sergeant Chris Stronko and Lieutenant Pete Kelting Seminole County Sheriff's Range and Water Contacts for the Bear Lakes

We encourage you to also invite a neighbor and meet others in the Bear Lake Community. BLPA will be providing all the Bar-B-Q chicken and pulled pork and beverages. If you can plan to bring a side dish or dessert for the Pot Luck dinner, it would be greatly appreciated. Don't forget those serving spoons with your dish!

RSVP by Tuesday, November 13th for our BBQ order and set up. To RSVP, please send your text message to Catherine Heideman at 407-538-1097 or email: cwjclafin@hotmail.com. Please let Catherine know what you are bringing and how many in your party will be attending.



Bear Lake Holiday Boat Parade

Save the Date: Saturday, December 8, 2018

More info and handouts to come.



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Sunrise on Little Bear Lake



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