

BuyHartwellLake

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February 2019

Email your pictures of Hartwell to HartwellLakefront@gmail.com.
One will be selected every month for our cover.

225 Jarrett Rd Anderson SC \$375,000 -Your lakefront RETREAT awaits you. Privately situated on 1.37 acres and including a 5 BAY (roll door) GARAGE/WORKSHOP with 14 ft. ceiling. It is all about the outdoor areas and this one has it! Enjoy summer fun in the auto filling salt water GUNITE POOL adjacent to a 30'x18' covered patio. OUTDOOR KITCHEN with a four burner stove, grill and refrigerator. Bath and shower off outdoor patio. The home offers an open floor plan, 9ft. ceilings and 2 br/1.5 baths between the main level and upstairs area. The lower level can easily be finished off and offers ample storage space along with a one car garage.



303 Cedar St Lavonia GA \$205,000 -Enjoy Lake Hartwell in this 3BR/3BA home. Large family room with fireplace. Kitchen includes all appliances. Laundry is just off the kitchen. Master on the main with a dressing area, large walk-in closet and full bathroom. Split bedroom plan with the other bedroom and full bath on the other side of the house. There's an additional room for an office/library. Full basement downstairs with a bedroom and full bath. A large unfinished rec room comes with the pool table. Covered slip dock with PWC lift. 2-car attached garage for storage. Additional carport for boat/RV storage. **New**



2817 Providence Church Rd Anderson SC \$499,900 - IT IS ALL ABOUT THE LOT. This 1.13 acre lot is level and borders Corp Property giving you the utmost of privacy. Wide open, unobstructed views with 200 ft. of Corp frontage. Covered slip dock with lift included. The main level family room offers high ceilings, a gas fireplace and comfortably connects to other rooms including a screen porch. Enjoy the hot tub on the deck which also has a 1/2 bath. Off the kitchen is a nice size dining area adjacent to a sun room. The master is on the main level with a full bath and walk in closet. The upstairs includes 2 bedrooms and 1 full bath. Connected to the 2 car garage is a game room with pool table included. Enter the basement from the outside at the back of home for your workshop or storage space.



351 N Century Dr Martin GA \$339,500 -Beautifully renovated home on gorgeous Lake Hartwell. This unique property features luxury updates with the comfortable feel of a lake retreat. Enjoy exquisite detailing including a spectacular great room with wood-burning stove, sun room with expansive water views, hardwood floors, gourmet kitchen, custom soft-close maple cabinets, quartz countertops, GE Cafe series SS appliances. Three bedrooms, full bath, kitchenette with sink & small fridge, laundry downstairs. New wiring, windows, attic insulation, water heater, Trane HVAC. Exterior features screen porch, two decks, hot tub, fire pit, fenced yard, outbuilding, 3-bay garage and gentle walk to covered slip dock. Always water here.



711 Belmina St Pendleton, SC \$95,900 - Adorable 2BR 1 BA home minutes from the square in Downtown Pendleton. The entire cottage has been updated: Flooring, paint, bathroom etc. Fenced yard. House is in a good school district, close to Clemson and a perfect fit for someone looking for a quiet neighborhood, close to the center of things. New roof in 2013. Would also be a great rental! Must see to appreciate. This will not be on the market long.



Q&A With The Corp Of Engineers



After a drought, when rainfall returns to normal or above normal, why do reservoirs continue to drop?

Severe drought causes the ground to dry out significantly causing groundwater tables to drop. When the rainfall initially returns, the dry soil soaks up much of the rainfall, preventing significant runoff into streams and creeks feeding the reservoirs. Until the soil is saturated, very little water finds its way into the reservoirs. In the mean time, the reservoirs must continue to supply minimum downstream water supply needs as defined in the Drought Plan. Once the inflows begin to exceed the outflows from the system, the reservoirs begin to recover.

What are seasonal evaporation rates?

The estimated evaporation rates vary by season with more evaporation in the hot summer months than in the cooler winter months. We estimate that in the summer the three reservoirs lose about 1,200 cubic feet per second (cfs) just to evaporation. Evaporation is an inevitable effect of having large reservoirs. Purely by its own existence, a large reservoir alters a river system by losing much of its inflow to the atmosphere. The loss to evaporation is proportional to the reservoirs surface area, and therefore would have had much less impact on inflows before the construction of the reservoirs. Typically, evaporation alone causes the Thurmond pool to drop almost one half foot per month during the summer.

What are the sizes of the drainage areas for the Corps' reservoir projects on the Savannah River?

Hartwell Lake's local drainage area is 1,186 square miles. The Hartwell basin also benefits from the drainage areas of reservoirs owned by Duke Power in South Carolina (439 sq. mi.) and others owned by Georgia Power in Georgia (463 sq. mi.). The total Hartwell drainage area extends from the foothills of the Appalachian Mountains to the I-85 corridor.

Russell Lake's local drainage area is the smallest of the three projects at 749 square miles. Thurmond's local drainage area is 3,307 square miles and is primarily in the piedmont region that has a flatter topography.

Cumulative drainage basin totals are 2,088 sq. mi. for Hartwell and above; 2,837 sq. mi. for Russell and above; and 6,144 sq. mi. for the basin area above Thurmond Dam. It is much harder to refill Hartwell than Thurmond after a drought, due to its smaller drainage area from which to accumulate runoff.

Polar Bear Plunge for Charity



Come join us at Big Water Marina for the 4th Annual Polar Bear Plunge hosted by Pennies4Preemies, a nonprofit organization founded by Miss Grace Cromer. Registration starts at 9:00 am and the jumping starts at 10:00 am. There will be a DJ, Celebrity Jumpers and anyone else who wants to jump into Lake Hartwell for this great cause! Be sure to get creative with your jumping attire, there will be a lot of fun and crazy outfits! Free T-Shirt register by 2/1.

To register email: pennies4preemies@yahoo.com or 864.634.3464

Big Water Marina and Campground
320 Big Water Road
Starr, South Carolina 29684

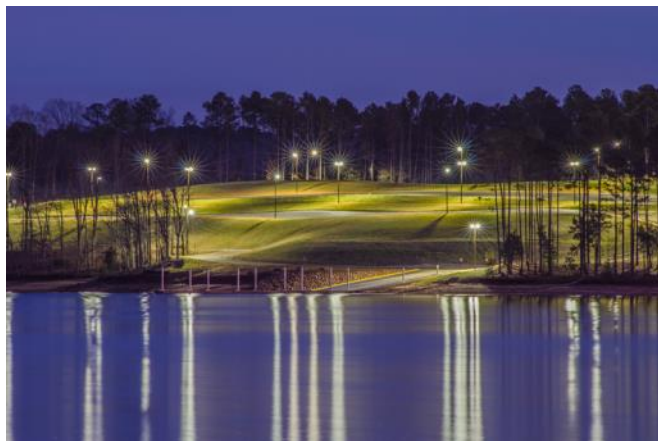
2019 will be busy on Lake Hartwell with multiple major fishing tournaments scheduled

It's a New Year, but Lake Hartwell is still the same staple helping to build the Anderson economy.

For the last five years, the Green Pond Landing facility has grown with construction underway right now to complete a set of bathrooms.

With the growth of the facility has come the increase of major fishing tournaments. In the next year, seven major tournaments including the Bassmaster Elite Series will take place on Lake Hartwell.

All in all the economic impact for just these tournaments in 2019 is expected at 3.5 million dollars.



"The folks that stay in the hotels and eat in our restaurants and pay that hospitality and accommodations tax those monies are coming back into the county and for the residents helping keep our tax base lower," said Neil Paul who is the Director of Visit Anderson.

The Anderson County officials tell 7News the major tournaments and professional anglers keep coming back because of the facilities and the kindness of the people who continues to invite them into their community.

The following are the major tournaments, dates and economic impact for the county for 2019 on Lake Hartwell.

Striped Bass Winter Classic

January 5 125 Boats \$400,000 Economic Impact

Bassmaster High School Eastern Open

March 2 200+ Boats \$487,215 Economic Impact

Bassmaster Elite Series

April 4-7 156 Boats \$2 Million Economic Impact

Fishers of Men Team Series National Championship

April 11-13 125 Boats \$400,000 Economic Impact

Crappie USA Tournament Trail

May 4 50 Boats \$20,000 Economic Impact

B.A.S.S. Nation Championship

October, 2019 59 Boats \$200,000 Economic Impact

Fishing Report

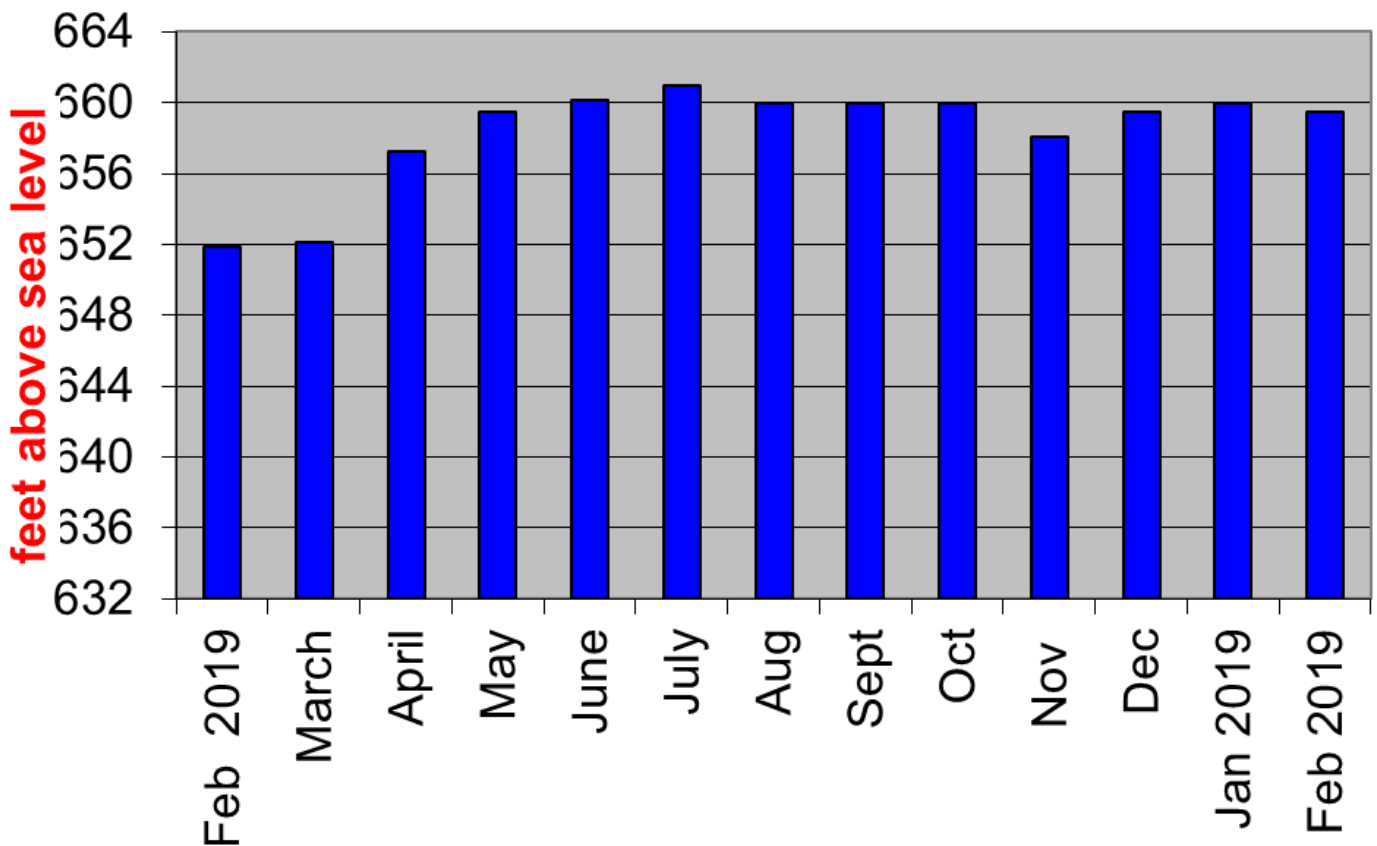
Lake Hartwell February 1st 47 degrees

Bass fishing is fair and the fish are tight to cover. The main lake is clear and stained to muddy up the rivers. Jigs are still the way to go. Blue black colors is best. Use your Lowrance to locate brush or timber in 10 to 15 feet of water. When you find the brush make sure the fish are there. Then drop your jig into the brush. Work the jig very slowly and the bite will be soft most of the time. There is a good a spoon bite on the south end of the lake. Look for these fish to be on the side of the humps on the south end of the lake. Flex It spoons have been the best producers.



Courtesy www.havefunfishing.com

Lake Hartwell Elevation (660 = Full)



Tips For Buying A Used Boat

There are numerous benefits to buying a used boat. One obvious benefit is the model has been tried and tested by people who bought them new. This is a big factor in determining which boat models are reliable. Another reason is monetary savings. Buying pre-owned can save a significant amount of money, when compared to purchasing new. This may be the reason, “60 percent of first-time boat buyers, purchase a used boat,” as reported by the NMMA (National Marine Manufacturers Association).

Purchasing a used boat does have risks. You should make sure the boat was properly maintained. Simply put, if things go wrong on a boat, all passengers will likely remember the experience with great detail. For this reason, inspect a used boat carefully before purchasing. If possible, have the boat reviewed by an experienced marine mechanic. In addition, never purchase a watercraft without a test cruise with the owner.



First-time boat buyers

First-time boat buyers often find themselves lost at sea before they step foot on a boat. There are numerous models to choose and Coast Guard regulations affecting their use. Before you start glancing at used boats, know what the boat's primary use will be. If you are looking to spend time cruising in peace, a Sailboat may be ideal. On the other hand, if you are looking for an all-around boat, Bow-Riders and Cuddy Cabins may be practical. To ensure you make the right decision, place considerable thought into boating plans. Once you have an idea, research the Coast Guard operation requirements, and the models that suite your needs.

At times, when you view a used watercraft, the boat may not be in water. It is common, depending on the region, to find boats for sale at the owners' home or the Marina. You can make a reasonable assessment without the craft being in water. Still, if a boat is, “the right one for you,” ask to take the boat for a test cruise before buying. An accurate assessment can not be achieved, unless the boat is operated in the water.

Always review the boat manufacturers' recommendations. Most importantly, consider the recommended maximum weight and number of occupants for the boat. If you plan on spending long days on the water with family, you want room to be comfortable. Also, make sure the recommended maximum weight leaves room for occupants plus carryon articles. On power boats, new or upgraded engines may offset the recommended operation weight or horsepower. The new motor may lack power to bring the boat, “on plane,” or be too strong for the Hull's design. Also consider the added or reduced weight of the motor. Never exceed the manufacturer's maximum ratings, especially for a new boat owner.

Appearance review of a Used Boat

When assessing a boat's condition, go by your first impression. If a boat looks horrible, it more than likely was not maintained properly. Remember, Salt attacks everything. If a boat was not properly cleaned, the salt caused damage to the boat. Here are ways to determine if a boat was maintained:

(Continued next page)

- Lift any objects on the boat. Pick up coiled ropes, flooring materials, or articles on deck. Look for discoloration or moss. Light discoloration may be fairly common, but deep discoloration or moss, is a sign the boat was neglected. Moss will commonly be found on the Northern side of any objects and the craft.
- Look at metal and wood surfaces. Do you see corrosion? Unprotected surfaces in a salty environment deteriorate rapidly. Teak (Common Wood for Boats) will become unsightly, if not oiled. Aluminum will pit, and it may be cracked or appear weakened.
- Look over material used for riggings, depending on the craft. Nylon may appear dirty, frayed, or weakened. On certain water craft, sailboats in particular, riggings are important.

- Analyze the Gel-Coat. The Gel-Coat should be waxed annually. This depends how often the boat was cruised. If not done sufficiently, the Gel-Coat will have a dull appearance. Rub your fingertip over the finish. If you notice chalk, you either have to live with a dull appearance or paint the boat. As some people may disagree with this statement, let me say, "I know many people that tried restoring the finish of a boat, but I have never seen anyone succeed. Even buffers and compounds failed".



- Examine the Hull's for problem areas. This will be seen by a discoloration in the Gel-Coat. If you believe the hull was repaired, inquire about the matter. Ensure the repair was done right.
- Make sure bulk heads are secure. Often bulk heads are secured with a laminate. This laminate may separate from the hull over time, leaving the bulk heads loose. If this is the case, I strongly urge you do not purchase the boat.
- These are areas of interest to find neglect on a used boat. Some of the areas mentioned are irrelevant to performance. They will alert you to little annoyances that need to be replaced in the future. For most boat owners, appearance of the craft is important. Spending hours on a dull and unsightly boat is not enjoyable. However, this reverts back to intentions of the boats.

Mechanical review of a Used Boat

- Depending on the type of boat you are planning to purchase, the mechanics are one of the most important areas. Marine engines are expensive, when compared to Automobiles. In addition, with single engine boats, failures can leave you stranded. Once again, I suggest taking the boat for a test run, and have the motor reviewed by an experienced marine mechanic. For your initial inspection, here are some factors to examine:

(Continued next page)

- Is the engine clean? A dirty engine is a good sign of neglect. As a boat owner, I routinely clean my engine after each use. In addition, I give extra care to the engine after it is run in salt water. Most engines produce an oily film when run. This film will cause salt to stick and induce pitting and corrosion to important parts.
- Are there heavy deposits of grime near gaskets or seals? This will indicate both neglect and possibly a significant leak. Additionally, they are a good indicator that the engine was exposed to salt for a long period of time.
- If the engine is rusted, there may be problems with the cooling system. Salt water that passes through the engine may be leaking.



- Freeze plugs should be made from brass, not steel. If steel freeze plugs are on the engine block, they should be replaced.
- If applicable, pull the dip-stick and look at the oil. If the boat has a diesel engine, the oil will be black. Oil with a foamy film may indicate cracks or neglected seals. Two-stroke, oil injected engines have additional components that properly lubricate the engine. Ask if the system has been checked or if any parts been replaced. Consult with the documentation to review the maintenance schedule.

- Check the batteries. This should be done whenever you take a boat for a cruise. But for review purposes, if the water is low, you will need to replace the batteries.
- Check any steering cables by giving a little tug. If loose, they need attention.
- Make sure the bilge pump works. The bilge pump removes water from the Hull. This is an important component.
- In addition to the bilge pump, some boats have bilge blowers. Generally bilge blowers are on Gasoline powered boats, but may be found on Diesel powered boat as well. The U.S. Coast Guard requires, "The use of a mechanical ventilation system for all non-open type boats built after July 31, 1980 which run on gasoline". Always refer to the manufactures suggestion for the bilge blower, especially on Gasoline powered boats.



23rd Annual Polar Bear Plunge & Winter Festival

Saturday, February 23rd, 2019

HARTWELL MARINA

Located 2 miles from the square at end of North Forest Ave.

Jump Registration 11:00- 12:00

Winter Festival, and Chili Cook-Off Judging begins at 11:00

Costume Contest Line-up and Plunge at 12:30

Food, Fun, Family & Friends???? What could be better!

Select from various food vendors

Have fun with our cake walk

face painting and much, much more

Bring your family and friends and join the fun!

Benefiting NE Ga. Council on Domestic Violence

Questions? Call 706-377-4884

How To Choose The Right Wakeboard



How Much Should I Expect To Spend?

This really depends on your financial situation, and how much time you expect to spend on the board, realistically. There are plenty of great introductory boards that will help you master the basics of wakeboarding. If you find you're sticking with the sport and are working up into a higher skill set of tricks, then it might be time to move into a more appropriate board. You might be able to find used boards locally through Craigslist or local classified ads if your budget is really tight. If you need someone to help you through the process, however, a watersports specialty shop or Internet

site may be your best bet. Many board shops may even offer a demo plan, so you can try it before you buy it. Expect brand-name boards to run from about \$150 to \$500.

What's the Right Length?

The general rule of thumb is that heavier riders need longer boards. That may not always be the case, but it's a good starting point. Just remember there are other factors such as width and weight to consider. If the board is too big, you may have a hard time riding and an even tougher time launching up in the air for tricks. On the other hand, if you have a board that's too small, you may not have enough surface area to keep you on top of the water while riding.

How Do I Decide The Proper Width?

There are a couple of things to consider regarding the width of a wakeboard. The more tapered the end of the board, the better it will turn, but the more limited you are with tricks that require launching off the wake. The wider the middle of the board is, will help you launch more easily, but will be tougher to turn in normal riding conditions. With most boats, with a small wake, you would be better off with a board that's slightly more narrow. If you will be riding behind a dedicated wakeboard boat that carries a lot of weight and creates a large wake, go with a wider board. That will also help you soften your landings.

How Do the Fins Affect My Ride?

Riders often refer to fins on the bottom of a wakeboard while describing the difference between a "loose" ride and a "tight" ride. Whether the fins are bolted in or molded into the board, they essentially serve the same purpose. The bigger the fins, the more surface you'll have in the water, and the more ability you'll have to cut and turn sharply in the water. Small fins will have less surface in the water, and you'll have to lean into your edge more while turning. Generally speaking, most beginners will find the stability of larger fins easier to use while learning. Higher-end boards may actually come with several sets of fins that you change out as your skills improve. It also helps to cushion your landings.

The final consideration to make (usually the first thing that catches your eye) is the graphics. There are several big-name wakeboard manufacturers that constantly compete to come up with wild new designs. That's part of the fun! Just make sure that you get the right board set up that matches your riding style. That way, you can really enjoy the sport and spend time out on the water improving your skills.

Courtesy www.discoverboating.com

ASA Sailing Courses Offered by Big Water Marina

Big Water Sailing School @Big Water Marina is the perfect place to learn the beautiful art of sailing. We have been a certified ASA (American Sailing Association) teaching facility since 1999. And since our founding, our niche market has always been the sailor. We will strive to better facilitate your search to sail on lakes/coastal and offshore just as we have for our customers for over 25 years.

It's hard to beat our locations. Big Water Sailing School @Big Water Marina is located in a beautiful wooded cove along the southern end of Lake Hartwell, South Carolina only two miles from the Lake Hartwell dam. We enjoy the largest open expanse of water on Lake Hartwell to provide sailors with excellent open water conditions for great sailing. Lake Hartwell itself is located on the South Carolina/Georgia line and offers 56,000 acres of water and 962 miles of shoreline. Hartwell offers plenty of open water (perfect for sailing). Wooded islands, secluded coves, parks, and recreational areas make it a cruiser's delight. Our coastal/off shore classes are held in the beautiful city of Charleston, S.C. which offers the sailor excellent sailing year round. So, come join us!!



Big Water Sailing School caters to the sailor and their individual goals and time tables whether it's basic sailing/coastal or off shore. Our School Director and instructor has 40 years plus of experience sailing for both Inland lakes, coastal and off shore both as a cruiser and delivery captain. So, come join us !!

ASA Sailing Certification Courses Offered

ASA 101, Basic Keelboat Sailing

ASA 103, Basic Coastal Cruising

ASA 104, Bareboat Cruising

ASA 105, Coastal Navigation

ASA 106, Advanced Coastal Cruising

ASA 110, Basic Small Boat Sailing

ASA 114, Cruising Catamaran

ASA 118, Docking Endorsement

BIG WATER SAILING SCHOOL
320 Big Water Rd. Starr SC 29684
(864) 226-3339
bigwatermarina.com

Clemson Scientist Working to Protect Future of Rare and Popular Sportfish

Bartram's Bass are a rare catch for fishermen to land on their hooks and a Clemson University fisheries ecologist is working to ensure that thrill continues to be possible for outdoor sportsmen.

Black basses are the most popular freshwater sportfish in the United States, and the Clemson area is home to one of the rarest of all: Bartram's Bass. Historically known as Redeye Bass, Bartram's Bass was recently determined by scientists to be a unique species that occurs in — and only in — the Savannah River basin in western South Carolina and eastern Georgia. But due to hybridization with invasive species and habitat degradation, Bartram's Bass face an uncertain future. In collaboration with the South Carolina Department of Natural Resources (SCDNR) and the Southeastern Aquatic Resources Partnership, Clemson assistant professor Brandon Peoples' research seeks to determine habitats where pure Bartram's Bass still remain and what it is about those areas that makes them resistant to hybridization.



Historically known as Redeye Bass, Bartram's Bass — one such fish is pictured on a nest — was recently determined by scientists to be a unique species that occurs only in the Savannah River basin in western South Carolina and eastern Georgia. Image Credit: Clemson University

“That’s important information to have because Bartram’s Bass doesn’t live anywhere else in the world,” Peoples said. “Bass can hybridize naturally in their native range. However, if we lose this unique genetic lineage of Bartram’s Bass in the Savannah, then there’s nowhere else to get them from. They’re just gone.” Named after famed American naturalist William Bartram, who came through the area in the late 1700s, Bartram’s Bass thrived in reservoirs such as lakes Jocassee and Keowee until the mid-1980s prior to the intentional introductions of other bass species, such as Alabama Bass, or Spotted Bass, into some of those reservoirs.

A larger and more aggressive species, invasive Alabama Bass tend to hybridize with Bartram’s Bass and scientists are learning that throughout much of their range — the Savannah River basin includes all the reservoirs from Thurmond Lake to Lake Jocassee — Bartram’s Bass are being replaced by Alabama Bass and hybrids. While preserving Bartram’s Bass matters to those for whom fishing is a favorite recreational pastime, it is an equally important tool for scientists to use in understanding the water quality in the Savannah River basin. Peoples’ project is an important step toward implementing conservation strategies that will benefit not only Bartram’s Bass, but also overall water quality and aquatic ecosystems as a whole.

The research takes an innovative approach of using detailed life history parameters of key species to define priorities for land restoration and conservation. It also will fill critical knowledge gaps in the life history and ecology of a species that lives nowhere else in the world but in the Savannah River basin. The Department of Natural Resources and Peoples’ team have sampled around 150 locations in the Savannah River basin; so far the largest Bartram’s Bass they’ve landed is only about 14 inches and the oldest about 10 years old. The long lifespan and slow growth of Bartram’s Bass makes the species particularly vulnerable to threats since it takes the populations so long to replenish.

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“Bartram’s Bass could be an important sentinel species for a couple of reasons,” Peoples said. “One reason is that they’re endemic to the Savannah, so they are obviously a conservation priority. And secondly, they’re a sport fish. Don’t let the size fool you, they’re fun to catch and live in beautiful stretches of river. Preliminary evidence suggests the presence and hybridization of Bartram’s Bass is related to the amount of forested land cover in a watershed. Coupling these variables with estimations of their growth rate as indicators of ecosystem health can help us prioritize areas for restoration to benefit all species, not just Bartram’s Bass.”

As the principal advocate for and steward of the state’s natural resources, the Department of Natural Resources is charged with conservation of native species such as Bartram’s Bass, which is listed among the highest conservation priority species in South Carolina’s State Wildlife Action Plan due to its reliance on a high-quality aquatic habitat and clean water, as well as threats from invasive species.

“SCDNR has been collaborating with Clemson University for over the past two years as partners on a project to identify hybridization rates and spatial dynamics of native populations of Bartram’s Bass interacting with introduced populations of Alabama Bass,” said Mark Scott, adjunct faculty in the agency’s Clemson field office. “Clemson’s research to define spawning requirements and describe other elements of bass life history will contribute to our understanding of where Bartram’s Bass are thriving and where there are problems due to interactions with non-native species. This joint research effort is critical to conservation and management of Bartram’s Bass going into the future.”

Peoples’ work with SCDNR and the Southeastern Aquatic Resources Partnership (SARP) began in 2016 as part of the National Fish and Wildlife Foundation (NFWF) Native Black Bass Initiative, which recognized that many endemic black bass species in the Southeast were experiencing similar threats from habitat loss and genetic deterioration. “Hybridization is a threat to almost all the endemic black bass species in the Southeast, not just Bartram’s Bass. NFWF recognized that problem and the Upper Savannah River basin was a key priority area,” Peoples said. Vance Crain, Native Black Bass Initiative coordinator for the Southeastern Aquatic Resources Partnership, said Peoples’ research allows the partnership to fill critical information gaps for the conservation of such species as Bartram’s Bass.



**Undergraduate technicians Luke Bell (left) and Jon Blalock collect Bartram’s Bass eggs.
Image Credit: Clemson University**

“Understanding the role introgression or habitat degradation play in the conservation of endemic species is vital for scientists and natural resources managers to effectively protect or improve aquatic condition,” Crain said. “Through SARP’s partnership with Clemson, we are better able to understand key life history requirements and make informed decision on specific management actions. The Bartram’s Bass has been identified as a keystone species by the Native Black Bass Initiative, being an indicator for overall aquatic resource health, and where the protection of healthy habitats ensures conservation of not only Bartram’s Bass but a host of other species. This partnership with Clemson not only helps Bartram’s Bass but also the watershed in which it resides, and it allows SARP to effectively allocate its limited dollars, ensuring the greatest benefit for the species and aquatic resource.”

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The initial project had two goals: first, to understand what habitats Bartram's Bass need to successfully reproduce and, second, to understand where in the Savannah River Basin, both in South Carolina and Georgia, genetically pure Bartram's Bass remain. That research, in turn, led scientists to a number of other questions, such as understanding the growth of Bartram's Bass. Peoples' current research seeks to quantify variation in growth rates — a key component of individual fitness — of Bartram's Bass throughout the Savannah River basin, identify the watershed-scale factors that control growth rates of Bartram's Bass and identify key locations and implementation strategies for stream restoration. Based on those results, they will use the South Carolina Stream Assessment tool to model potential restoration alternative scenarios that maximize key locations and strategies for improving growth of Bartram's Bass.

“Identifying what factors make good strongholds for pure Bartram's Bass and where they are heavily hybridized will be important for several reasons. First, it will let us build a predictive map of where to look for new populations. Second, it can help us identify impacted areas that may be good candidates for restoration. Finally, it can help us identify locations for collecting broodstock for supplemental hatchery stocking. This approach has been used to restore other endemic bass, such the Guadalupe Bass in Texas.” Peoples said.

Stream restoration typically involves reforesting riparian areas, ensuring there's a buffer around the stream to protect water quality. The encroachment of non-natural land use, such as urbanization and suburban housing developments, can allow more sunlight to enter the stream and increase the water temperature as well as allowing sediment to enter the stream and negatively affect many stream organisms that have to rely on gravel and rock bottoms. Other aspects of stream restoration involve restoring connections through dam removal. Small mill dams and other impediments can cause populations to become isolated and potentially dwindle out. However, restoring connectivity may also let invasive species access upstream habitats. So conservationists must always weigh the costs and benefits of any action.

“Clean water is important for everyone and everything,” Peoples said. “Sport fish need clean water and good habitat just like invertebrates and non-game fish. It's important to think about water resources from an ecosystem perspective that includes services to people through drinking water, recreation, etc. We need clean water for everything, and the species that live in that water are the first responders indicating changes in water quality and quantity.”



Clemson fisheries ecologist and assistant professor Brandon Peoples is working to determine habitats where Bartram's Bass still remain and what it is about those areas that makes them resistant to hybridization. Credit: Clemson University

Courtesy Clemson Newsstand—Steven Bradley



Visit our Lake Hartwell Informational Site LakeHartwellLiving.com

Interested in activities around the lake? LakeHartwellLiving.com highlights current lake activities, events and news. You will find information concerning the corp of engineers, permit procedures and contact numbers for local service providers you may need. Also included are links to surrounding activities such as golf courses, waterfall hikes, campgrounds and marinas.

For the Kids



WORD SEARCH



See how many of these newspaper related words you can find in the puzzle.
The words can be forward, backward or diagonal.

Created by Sue Lindlauf
Grand Forks Herald 2013

- | | | | |
|---------------|------------|--------------|---------------|
| 1. VALENTINES | 5. NOTES | 9. CELEBRATE | 13. CHOCOLATE |
| 2. DAY | 6. LOVE | 10. FEBRUARY | 14. FLOWERS |
| 3. HEARTS | 7. CUPID | 11. FOURTEEN | 15. GIFTS |
| 4. CARDS | 8. HOLIDAY | 12. CANDY | 16. SWEET |

BuyHartwellLake LLC

1-855-Buy-Lake



- We know the lake, our experience allows us to evaluate your needs and quickly identify properties that make sense for you.
- We have the largest inventory and selection of properties listed on Lake Hartwell. Over 100 properties as of 12/1/2018
- Every partner in our company is a full time resident on Lake Hartwell
- All partners have more than 15 years experience selling and listing property on Hartwell.
- Homes and lots are listed in **three** MLS systems, Western Upstate SC, Greenville SC and GA MLS for maximum exposure.
- Our site www.BuyHartwellLake.com is typically listed first on the first page of virtually all google searches for Lake Hartwell homes and lots.
- We have a one million+ email database of the prime Lake Hartwell purchasing demographic for marketing purposes.
- All listings are submitted to 700+ websites including our flagship site BuyHartwellLake.com. Over 100 million prospects visit our network of partnered websites every month! You will be seen!
- Our monthly newsletter features listings, corp news, lake events and is distributed to thousands of lakefront property owners and a database of clients interested in owning lakefront property.
- Need a different perspective? We offer property viewing by boat. This can give you a unique look at a particular home or lot that you're considering.

Call us anytime to discuss your situation
1-855-Buy-Lake



Patty and Don Cleveland
864-940-2232
Patty@buyhartwelllake.com



- Members of SC Western Upstate, Greenville SC & the GA MLS
- Multi-Million Dollar Producers and Accredited Buyers Representative
- Specialization: We all specialize in property on and around Lake Hartwell, Lake Keowee and other surrounding lakes. We pride ourselves in keeping abreast of the market of both what is new and what has sold. We want to be well informed so as to give you the best service possible. Our motto is "If we don't take care of our customers, somebody else will".
- Personal: We have lived on Lake Hartwell for a number of years owning property in both Georgia and South Carolina. We know Hartwell! Whether you are looking to be on the lake or in a lake accessible area, we can help you. Once you narrow your search down, we can show you property by boat. If you are looking to sell, please let us meet with you and show you our marketing plan. Many of our clients are referred to us by previous clients. Let our dream of lake living be yours as well.

Kyle Corbett
864-376-9163
Kyle@buyhartwelllake.com



- Listing Specialist–Aggressive Marketing Plan for Lake Property&Homes with inclusion in three MLS Systems.
- Listing Sales Rate 36% GREATER than the lakefront market average
- Full time resident on Lake Hartwell for the last 26 years
- Licensed in SC and GA – Multi Million Dollar Producer
- I bought my first lake cabin in 1992 a few years after graduating from Clemson University. 25 years later I am married with three boys and we spend a great deal of our free time skiing, tubing, knee boarding and kayaking
- I have a marketing plan which is second to none and gives our sellers an upper hand when it comes to listing their property. As a result, my listing sales rate for homes is 36% GREATER than the market average. Why? Because we do more! My approach is based on years of experience, research and knowledge of buying trends. I do not just put sign in the yard and just walk away, I spend time everyday with every listing making sure it is best positioned to get maximum exposure. Allow me to determine the value of your lakefront property.

Debbie Henderson
404-313-4404
Debbie@buyhartwelllake.com



- Originally from the Midwest, my husband and I moved to Stone Mountain, GA in 1980 to start a new business and then to Snellville where we raised three children. We now have two grandchildren and a dog named Sir Alex Ferguson.
- After boating on Lake Lanier for many years, we moved to Martin, Georgia on quiet, peaceful Lake Hartwell in 2005. By water, we are near the "jumping rock."
- My husband builds custom lake and golf course homes. I've observed first-hand the building/selling process over the last 25 years.
- Licensed in Georgia & South Carolina to serve your buying and selling needs on Lake Hartwell and surrounding areas.
- Obtained an additional Accredited Buyers Representative designation in 2014.
- I would be delighted to help you buy or sell on Lake Hartwell!



Judy Stevanovich
864-276-7416
Judy@buyhartwelllake.com



- I was born and raised in Anderson. After a 32-year career in Corporate America and many relocations, I came home to Anderson in 2005.
- My Marketing, Sales, Finance, Human Resources, and Administration background in Corporate America has been immediately put to work in Real Estate.
- My husband Steve and I live in Stone Creek Cove in Anderson on the shores of gorgeous Lake Hartwell. Steve is an artist and when he is not in his studio there is only one place to look -- the golf course. We both love being in Anderson.
- I obtained my Accredited Buyer's Representative (ABR) and my Senior's Real Estate Specialist (SRES) certifications in 2014.
- My sub-company is the Upstate A Team and my slogan is "Real Estate With a Difference!" Call me today and you will be able to experience first hand the processes I have put in place to quickly find you the perfect property or determine the market value to sell the property you have today. For more info, see my website www.upstateateam.com.
- Call me today and experience, "Real Estate With A Difference!"

Larissa Pino
864-376-2745
Larissa@buyhartwelllake.com



- I am originally from South Florida and I speak fluent Spanish. My husband and I have been married for 23 years and we have 3 beautiful children. My family and I moved to South Carolina approximately 10 years ago.
- I am licensed in South Carolina and Georgia. I ultimately chose to specialize in lakefront property because my family and I love spending time on Lake Hartwell and when you love something, it's easy for others to see how strongly you feel.
- I take pride in the fact that I am knowledgeable about Corps of Engineers rules and regulations, lake levels, and market conditions. I enjoy working with people and I am committed to working diligently for my clients and exceeding their expectations. I take time to listen and learn about my clients' wants and needs and strive to always act with the utmost professionalism and work using a very hands-on approach.
- Whether you are looking to buy or sell (on or off the lake), please feel free to contact me. I look forward to working with you and making your real estate dreams come true! See ya' on the Lake!

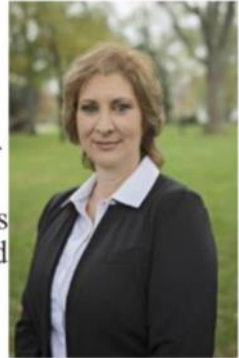
Sarah Cleveland
864-415-7448
Sarah@buyhartwelllake.com



- I have lived in South Carolina all of my life.
- My husband and I have been married for 27 years and have 2 sons that graduated from Clemson University. I have been around the Anderson/Clemson area for close to 30 years and have owned a condo on Lake Hartwell for the past 2 years.
- I have over 30 years experience in public education where I have worked with administrators, teachers, students and parents. I understand the importance of helping people reach their goals.
- Let me be the 1st to help you!



Sylvia Pintado
864-556-4436
sylvia@buyhartwelllake.com



- After being in Sales and Marketing in the print media industry for over 27 years, Sylvia Pintado has decided to follow her lifelong passion of becoming a Real Estate Professional.
- Sylvia has always been successful in achieving her personal as well as her professional goals because of her desire to help other people and do what is right. She is very easy to talk to and always willing to listen.
- Sylvia says "One of the most important transactions that people will do in their lifetime is the purchase of a home, my goal is to help them achieve that."
- Sylvia is the wife of 27 years to Jesse Pintado and mother to three wonderful children, Jesse (25), Stephanie (23), and Eddie (21) and let's not forget the dog Miley, she is the princess of the house!
- She says that it is with their love, support and faith in God that she maintains that motivation, dedication and discipline to do well and help others.
- She is truly excited to represent BuyHartwellLake LLC and assist you with any and all of your home buying or selling needs.

Katie Tillman
864-303-3469
Katie@buyhartwelllake.com



- After we sold our building downtown, we opened another restaurant at Stone Creek Cove on Lake Hartwell and operated that for 5 years. We sold that restaurant 5 or 6 years ago and decided to continue to develop the catering portion of our business. In that time, we have developed a thriving catering business that I continue to work, and am still an operating partner.
- I love Anderson, I have been here 30 years. I came here to work for the City in Downtown Development. I worked with the City for several years and then met my partner of 25 years, Val Lowe and we opened Friends Restaurant in Downtown Anderson. We operated the restaurant and catering company for 17 years.
- I have extensive contacts in the Anderson and surrounding business communities, and can use the skills I developed running a small business to help buy or sell your home or property.
- I live on the lake and have for 25 years. It is beautiful, tranquil and fun; I highly recommend it and would like to help anyone interested in owning lake property, make that so.



Arielle Salley
803-553-9219
Arielle@buyhartwelllake.com



Originally born in Massachusetts, I have been a South Carolina resident for the vast majority of my life. I am a graduate of the University of South Carolina Beaufort who fell in love with the Upstate 7 years ago when my husband and I moved to Anderson. My husband and I have been married for 10 years and now have a beautiful daughter.

Whether you are searching for a weekend getaway from a bustling life in the city or are considering making the upstate your next home, I am confident I can find the perfect place for you. I am attentive to my client's needs and work diligently to execute those goals. I am best suited for Lakefront properties as well as those in the surrounding upstate because I am knowledgeable in all this area has to offer. I partake in as many outdoor activities as time allows. I can point you in the direction of my favorite waterfalls, hiking/horseback riding trails, fly fishing locations, restaurants and some of the most impressive lakefront locations our area has to offer.

Searching for a new property or home is an exciting experience. I am dedicated to making this transition in your life as seamless as possible. I am currently licensed in South Carolina and Georgia. I look forward working with you and helping you discover some of the best kept secrets the Upstate has to offer!