



Registration for Backwoods Festival

Cardboard Boat Regatta

Lake Hill Winery is seeking entries for their 5th Annual Backwoods Festival Cardboard Boat Regatta on Saturday, August 27th, 2016

The official race begins at 12:00 PM on the Carthage Lake, directly behind Lake Hill Winery. Entries are limited to the first 24 boats registered.

On the day of the event, all captains and boats must be on the premises and on DISPLAY for check-in at the winery at 11AM. Entry fee is **\$30 per boat** and must be paid in advance. There will be no walk-ins on the day of the event. Participants must be at least 16 years of age and must wear close toed shoes and a life jacket. Please read rules and tips sheet before signing.

Questions? Call 217-357-26751 or e-mail info@lakehillwinery.com for more information

BOAT NAME _____

CAPTAIN'S NAME(S) & AGE(S) _____

E-MAIL _____

STREET ADDRESS _____

CREW NAMES (up to 5) _____

I am at least 16 years of age and agree to abide by Lake Hill Winery's policies and other rules that govern this event. In consideration of being permitted to enter this event, being knowledgeable of the risks of boating and knowing that it is my sole responsibility to decide whether to enter or continue any race, I voluntarily assume the risk of participation in this event and release Lake Hill Winery and the people conducting the event, from all liability in connection with any injury or damage that may occur.

Signature: _____ Date: _____

Amount Paid: _____ Received By: _____

RULES and TIPS

Participants must be at least 16 years of age and must wear close toed shoes and a life jacket.

Participants (at least 2 people on a team, with a max of 6 people on a team) design and build a human-powered boat made of corrugated cardboard which is capable of completing a trip around a constructed course on the Carthage Lake. Friends and family are invited to cheer on their favorite teams. The race starts along the Carthage Lake, directly behind Lake Hill Winery on **August 27, 2016 at 12:00 PM.**

Registration Fee \$30 – Please drop off registration sheets at Lake Hill Winery, email to info@lakehillwinery.com before August 15th. On the day of the event, all pre-registered Captains and their boats must check-in with the judges at Lake Hill Winery at 11AM. Late registrants will not be eligible for the People's Choice Award and may not be allowed to race. Entry fee is \$30 and must be submitted in advance. There will be no walk-ins on the day of the event.

Boat Building Rules

The first ingredient in cardboard boat-building is creativity. The second important ingredient is problem-solving. Then there is cardboard, which must be corrugated. There is no one way to build a cardboard boat. There are some requirements about the use of certain substances and materials for boat construction. But other than those, people are encouraged to have fun. Please see Construction Rules and Basics packet for approved construction materials and detailed rules. There are no restrictions placed on decorative materials as long as they do not aid in the flotation or propulsion of the boat and do not create a safety hazard. Stay away from stuff that is toxic, either for you or for the environment. Boats will be subject to a technical inspection before the race and must adhere to these guidelines. Any boat not following these guidelines will be disqualified. Exception: you may use wooden paddles or you may use wood to make paddles or oars.



Race Day Rules

Each boat must have a Captain and may have as many team members as desired (or as many as the boat can handle). Captains must have their boats on the premises and check-in at the Winery at NOON. The official race start is 12:00 PM.

Spectators

The Backwoods Festival Cardboard Boat Regatta is free and open to the public. Live music will start at the festival at 7:00PM (gates open at 6pm) and go until midnight and will require paid admission. All race spectators will be required to vacate the waterfront before the music starts and can re-enter with a purchased ticket.

Safety Precautions

All boating participants must be at least 16 years of age and wear a **life jacket and closed toe shoes** (no bare feet or flip flops). Each occupant must be visible while the boat is in the water. Alcohol is prohibited for all participants that will be inside of boat.

What types of boats are involved?

We've heard of cardboard kayaks, barges, freighters, pirate ships, riverboats, rafts, beds, and other floating vessels in the shape of a bratwurst, a giant Tootsie Roll, cars, trucks, airplanes, space shuttles, aircraft carriers, dragons, sea monsters, sharks, dolphins, sea turtles and other marine animals — all made of cardboard, of course.

Before Building

Building a person-powered cardboard boat, capable of completing a trip around a 300-meter course, is a lot of fun. First, start with some objective in mind. Do you want to build the fastest boat at the regatta, or are you more interested in the awards for best theme?

Next, envision what you want your cardboard creation to look like and come up with a design idea. **Build a model** using a manila folder or other heavy paper or lightweight cardboard. That way, you can fold, re-fold, and fold again to your heart's delight. You can cut it up, glue or tape it together, and try out your design idea in small scale before working on a full-sized creation. Or you can throw out an idea that sounded great, but just doesn't work, and then try something else before you waste any cardboard.

Most teams utilize engineering and design principles. Consider the science involved. There's a simple principle in physics which says that the total buoyant force is equal to the weight of the water displaced by the object. This buoyant force is distributed evenly across the area of the object. Otherwise the boat bends in half when you get into it and water pours in. Calculate the displacement of your idea so that you will have some idea about the buoyancy of your design. **Here's the basic number:** a cubic foot of water weighs about 62 pounds. That means that a

180-pound person will float in a boat that is 1 foot by 1 foot by 3 feet. Sounds uncomfortable, but at least you would know how much boat you and your crew will need at a bare minimum to displace enough water to stay afloat, without taking into account things like splashing or wobbling. Last minute modifications and frantic problem solving, however, are often required. Creative problem-solving adds to the fun. Whether you get your insights from methodical effort or from wide-ranging trial-and-error, building a cardboard boat can be very rewarding. Be sure your boat will be able to get out the door of wherever you build it. There are woeful tales about creations that had to be dismantled — or even trashed and rebuilt — just because no one thought about the size of the boat and the size of the doorway.



Where to get materials?

You might obtain corrugated cardboard from appliance stores. The shipping boxes for refrigerators and big freezers can be good possibilities. Maybe you can get boxes for TVs, bedding, bookcases, or other furniture. **Homestead Lumber in Carthage** is aware of all rules and should have all needed materials in stock. They can be reached at 217-357-3165.

Questions? Call 217-357-2675 or e-mail info@lakehillwinery.com for more information