



Kite-powered boat can be sailed by one person.

## 10-FT. WIDE NYLON "KITE" PULLS BOAT THROUGH WATER

# New-Style Sailboat Pulled By A Kite

"It's more fun than a sailboat and goes a lot faster," says James Schrems about his wind-powered "kiteboat" that's propelled by a large nylon kite.

Schrems' "kiteboat" has a pair of fixed pontoons on back and a small castoring float up front. A simple frame made from aluminum pipe connects all three floats. A small platform holds a swiveling seat and a winch operated by a pair of foot pedals. The winch lets the 10 by 5-ft. kite out or pulls it back in. Another set of pedals controls movement of the rudder to steer the boat. Hand-operated reins connected to the sides of the kite are used to control its speed and direction.

"As far as I know it's the only kite-powered boat that can be launched and retrieved by one person over water," says Schrems.

"The seat turns so that the operator always faces the kite. I usually go across the wind for maximum speed. A kite has a lot of advantages over a sail. The wind higher up above the surface of the water is stronger and steadier. Also, a kite lifts the boat up out of the water without applying pressure that could overturn the boat as conventional sails do. There's less resistance so the boat goes faster.

"My kiteboat is easy to operate because the main pull is against the winch, not against my hands. The winch has an automatic brake on it so wherever I leave the pedals, that's where the kite stays."

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"Kiteboat" consists of frame and three floats. Pedals control winch and rudder.

## GEORGIAN SPENT 33 YEARS PERFECTING NEW "FROG FARMING" SYSTEM

# Looking For Something New? How About Frogs

"If you're looking for an unusual new live-stock enterprise, you may want to consider raising frogs," says Ken Holyoak, owner of Ken's Hatchery, Alapaha, Ga., who's come up with a complete new system that he says makes frog farming a profitable alternative on any farm.

Holyoak came up with a specially-designed tank for frogs and a first-of-its-kind feed ration. He sells yearling frogs that have been trained to eat the feed.

"I've spent 33 years doing every kind of research project possible to come up with a way to make frog farming practical. I



Erbe's Farmall is patterned after an F-20. It features a 3-speed transmission he built.

## "THEY RUN LIKE FULL-SIZE MACHINES"

# He Built Half-Scale Tractors, Semi-Truck

"People get a kick out of seeing my half scale Farmall and Waterloo Boy tractors and my 9/16-scale semi truck. They all run just like the real thing," says George Erbe, Monona, Iowa.

The Farmall is patterned after an F-20 model. Power is supplied by a Kohler engine. Erbe built a 3-speed transmission which can be hooked up to a belt pulley and pto. He used steel tubing to build the rear axle from scratch. The tractor has 15-in. rear tires and 8-in. front tires.

The Waterloo Boy has a turned-around Hercules engine and a 4-gal. kerosene tank

in front. "It looks and sounds just like a real Waterloo Boy. The engine even has the same rpm's," says Erbe.

The 20-ft. long 18-wheeler semi-truck has room for two people in the cab. It's patterned after a 1978 Mack CruiseLiner and has an air horn, turn signals, directional signals, and AM-FM and CB radio. The 12-in. tires are mounted on 4 by 8 wheel rims. The cab and 13-ft. trailer are made from sheet metal.

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Mack CruiseLiner has 12-in. tires mounted on 4 by 8-in. rims, and a 13-ft. long trailer.

know for sure that if you don't get everything right you won't be successful raising them," says Holyoak. "My biggest breakthrough was in coming up with a feed that makes frogs grow fast and a way to train them to eat it. Frogs are normally insect-eaters, but it would be impractical to grow frogs commercially with insects for food. Frogs that eat our feed grow faster and larger than wild frogs. While it may take 2 to 3 years to grow wild frogs, we can grow trained yearlings to adult weight in only 180 days."

Holyoak says frogs can be raised in carports, back yards, basements, or old barns. His tank is 4 ft. wide, 3 1/2 ft. high, and 6 ft. long and accommodates up to 75 frogs at a time. A hose hooked up to the tank keeps the water fresh. The tank has places for frogs to dry off, hide, and feed. "Frogs need to be inside where it's warm or they'll hibernate," says Ken. "Insulation can be laid over the top of the tank and a heat bulb mounted inside to keep it warm."

According to Holyoak, there's a "tremendous demand" for frogs both for research and food purposes. "People enjoy raising frogs because it's fun to watch them eat and swim, and there's a big demand for fresh, quality frog legs, which are one of the most popular delicacies available. However, it's rare to find them in restaurants or supermarkets because DDT wiped out much of the frog supply in the U.S. years ago and they never recovered. It's getting to the point where frog legs have become very expensive. I look for us to turn that around."

Holyoak sells a complete, small frog farming system for less than \$1,000. He also sells plans to build your own system beginning at \$100.

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