

Lake and Pond Habitat Structures

Restoring and Enhancing Aquatic Habitat

ELWd Systems division of *Forest Concepts, LLC*

2001.03

ELWd[®] (pronounced “elwood”) structures are manufactured alternatives to native coarse woody debris and stumps for improving habitat in lakes and ponds.

ELWd[®] products from the ELWd Systems division of Forest Concepts, LLC provide an economical and functional alternative for lake owners, fisheries specialists and conservation organizations.

ELWd[®] structures are ideally suited for projects designed for installation by volunteer and conservation crews.



This ELWd[®] structure pair includes one vertical stump replacement and a horizontal floating structure. The float height may be controlled by adding ballast.



This eight-pole structure is 4 feet tall and 16 inches in diameter. It was delivered fully assembled and floated into position. The structure is anchored by gravel ballast.

ELWd[®] products can be used to create habitat for fish, turtles and other aquatic organisms. Structures can be fully submerged by adding weights or by anchoring. ELWd[®] structures can be semi-submerged horizontally or ramped to provide basking habitat and perches.

ELWd[®] structures are fabricated from readily-available small diameter poles and forest residuals. Most lake and pond structures use poles with a 3 to 5 inch top diameter. Standard ELWd[®] pond structure kits are available in lengths from 4 to 10 feet and diameters from 14 to 24 inches. Other sizes are available upon request.

ELWd[®] engineered wood structures are available from local sales representatives, regional distributors and directly from ELWd Systems.

The Advantage of ELWd[®] Habitat Structures

All Wood Components, Lightweight, Effective Habitat

Concrete feet can be cast around every other pole of an ELWd[®] stump replacement structure so it will sink to the bottom and stand upright.



An important advantage of ELWd[®] habitat and technical products is the ease of field assembly by hand crews. Volunteer and conservation field crews lift only one pole at a time, and use simple hand tools to build a hollow log structure. As spars are inserted into tapered mortise holes, a wedge is driven into the tenon to form a strong all-wood joint.

ELWd[®] structures can be cabled to an anchor or ballasted by filling the hollow core with gravel. Concrete feet or a formed disk can be keyed into the bottom of a lake structure to ensure it stands upright in the water.

Completed ELWd[®] structures have high surface area which promotes biotic activity. Water filters through the structure, providing a rich environment for juvenile fish, aquatic insects and aquatic flora.



ELWd Systems

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Patents: U.S. 5,823,710 other patents pending
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