elodea adequately in shallow waters to make it a viable control mechanism if light attenuation were its only mode of control.

**Compression and Space Limitation**

It appears that the principal mode of aquatic plant control affected by Aquascreen is compression and space limitation. It would also appear to be impractical to attempt this sort of control for a dense, rigid, and compact mature stand of elodea. Aquascreen does, however, show promise as a preventative or re-infestation control of elodea in an area that has been previously cleared of vegetation by raking, cutting, shallow dredging, or herbicide application. This was tested in the Dow Gardens pond system during the summer of 1980.

On May 7, 1980, four 5x5-foot sheets of Aquascreen were placed randomly in a shallow water area that had just been raked free of vegetation. Two 5x5-foot plots were chosen as controls. All the vegetation from the six plots was harvested on August 8, 1980 and ash-free dry weights were determined for subsamples.

Elodea grew beneath the Aquascreen and appeared to be vigorous but did not displace the screens upward in an unsightly fashion. Aquascreen was indeed quite effective in controlling the growth of elodea when applied in this manner. The plant biomass growing beneath and through Aquascreen was only 3% of that found in the control plots measured as ash-free dry weight per square foot.

Elodea growing adjacent to the treatment plots tended to overgrow the edges of the screens, but none of the treatment plots were completely covered by the encroaching plants. This year we will treat a much larger area with Aquascreen to evaluate the extent of adjacent plant encroachment over the treatment area and its impact on the efficacy of Aquascreen as an aquatic plant control tactic.

Aquascreen appears to have a great potential for the control of rooted, submersed aquatic plants in shallow ornamental ponds, as long as good pond bottom contact is made. Luxuriant, rigid, and dense plant communities, such as those formed by elodea, may have to be removed mechanically or with herbicides prior to the application of Aquascreen so that proper bottom contact can be made. Bottom contact is also essential so that the treatment will not be aesthetically objectionable. Although the light attenuation effect caused by Aquascreen is not adequate to be a viable control strategy in typical shallow ornamental ponds, the compression and space limitation effects caused by Aquascreen integrate well into ornamental pond management planning and technology.
The current issue of WEEDS TREES & TURF carries meeting dates beginning with the following month. To insure that your event is included, please forward it, 90 days in advance, to: WEEDS TREES & TURF Events, 757 Third Ave., New York, NY 10017.

Virginia Nurserymen's Association and the Virginia Society of Landscape Designers joint summer meeting, Inglewood Red Carpet Inn, Staunton, VA, June 21-23. Contact Katherine Martin, Executive Director, VNA, P.O. Box 827, Richmond, VA 23207, 804/644-0912.

American Seed Trade Association annual meeting, Atlanta, GA, June 28-July 2. Contact ASTA, Executive Building, Suite 964, 1030 15th St. N.W., Washington, DC 20005.

Northern Michigan Turf Managers Association meeting, Cadillac, MI, July 7. Contact C. E. "Tuck" Tate, President, NMTMA, 1147 Santo, Traverse City, MI 49684, 616/947-9274.

New York State Nurseryman's Association Convention and Trade Show, Onondaga County War Memorial Convention Center, Syracuse, NY, July 7-10. Contact Margaret Herbst, 230 Park Ave., New York, NY 10017, 212/685-4579.

Aquatic Plant Management Society annual meeting, Coliseum Ramada Inn, Jackson, MS, July 12-15. Contact Lou Guerra, Texas Parks & Wildlife Dept., 134 Braniff, San Antonio, TX 78216, 512/349-2174.

Grower's Seminar, San Jose, CA, July 14. Contact Lanny E. Walker, Public Relations Director, California Association of Nurserymen, 1419 21st Street, Sacramento, CA 95814, 916/448-2881.


Sixth Nebraska Turfgrass Field Day and Equipment Show, Aug. 4. Contact Dr. Robert Shearman, University of Nebraska.

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Events from page 52

of Nebraska, 377 Plant Science Bldg., Lincoln, NE 68583, 402/472-2550.


Illinois Landscape Contractors Association Summer Field Day, D. Hill Nurseries, Union, Illinois, Aug. 5. Contact Lucille Little, 202 W. Main St., PO Box 1049, St. Charles, IL 60174, (312) 594-5770.

International Society of Arboriculture Convention, Boyne Mountain Resort, Boyne Falls, Michigan, Aug. 9-12. Contact E.C. Bundy, ISA, PO Box 71, 5 Lincoln Square, Urbana, IL 61801, (217) 328-2032.

Central Plains Turf Foundation/Kansas State University Turf Field Day, Manhattan, KS, Aug. 12. Contact Dr. Robert Carrow, Kansas State University, Dept. of Horticulture, Waters Hall, Manhattan, KS 66506, 913/532-6170.


Grower's Tour, Aug. 25. Contact Richard Staples, Program Administrator, California Association of Nurserymen, 1419 21st Street, Sacramento, CA 95814, 916/448-2881.


Northern Michigan Turf Managers Association meeting, Gaylord, MI, Aug. 26. Contact C. E. "Tuck" Tate, President, NMTMA, 1147 Santo, Traverse City, MI 49684, 616/947-9274.

Ornamentals Northwest Seminars, Oregon State University, Portland Memorial Coliseum Portland, OR, Aug. 28-29. Contact Dr. James L. Green, Oregon State University, Dept. of Horticulture, Corvallis, Oregon 97331, 503/754-3464.

Garden Industry of America Conference & Trade Show, Pittsburgh Convention/Exposition Center, Pittsburgh, PA, Sept. 10-12. Contact GIA, Box 1092, Minneapolis, MN 55440.
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Address for Standards

On page 14 of the January 1981/Vol. 20, No. 1 issue, under Equipment is an article about a publication on chain saw safety. This is available from the American National Standards Institute, and the publication number (B175.1-1979) is listed.

Unfortunately, no address is given for American National Standards Institute, and I would like to order this publication. Would you please send me more information so that I may order this?

Sincerely,
Grace Jacobson, Secretary
Minnesota Department of Agriculture

The address is: American National Standards Institute, Inc., Sales Dept., 1430 Broadway, New York, NY 10018. The institute has also just published its 1981 Catalog of American National Standards. This 206-page publication may be obtained at $8.50 per copy.

Landscapes book available

I was pleased to note that you gave the serialization of Chapter 2 from "Landscape Design That Saves Energy" prominent placement (February WT&T). However, I noticed one problem that I hope you may correct in a subsequent issue. Nowhere in the article or in your editorial is the name of the book mentioned. This may make it difficult for your readers who wish to buy the book, especially since there is a typographical error in the publisher's address as well (William Morrow and Co. is at 105 Madison Avenue).

Also, on page 21, line 37, there is another typo that conveys an incorrect fact. A windbreak of 20 foot (not two foot) Austrian pine cuts a 12 mph wind velocity to 3 mph.

Despite these slips, Marc Schiler and I are pleased with the product. I hope your readers are, as well.

Sincerely,
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or metering [drip] systems are sometimes used in flowing water situations or to treat make-up water which is entering the pond. Recirculating pumps can sometimes be shut down during treatment and kept off for several hours. Ponds fed by significant amounts of runoff should not be treated when heavy rains threaten.

While most aquatic pesticides are compatible with a wide range of water qualities, certain conditions can neutralize them. Some herbicides should not be used in muddy waters since the active ingredient becomes deactivated (i.e. Diquat). Similarly, copper sulfate applied for algae control in hard water precipitates out of solution too quickly to be effective. Chelated copper may be used to insure proper contact time.

Corrosion can be of some concern, particularly when the pond water is recirculated through or around expensive equipment. Generally, chemical concentrations after application are too low to cause any problems. High dosage of copper sulfate or poor distribution of products, however, could cause damage.

Effluent standards, particularly in sewage treatment or retention ponds, must be met if they flow into nearby waterways. Familiarity with state guidelines and permits is of utmost importance. For example, the suspended solids content might exceed state requirements due to abundance of planktonic algae. A remedial action would be to apply a copper algaecide. It must be insured, however, that the copper concentration does not exceed effluent standards for copper.

Equipment used for applying aquatic pesticides will vary depending upon the size of the area to be treated and the formulation being used. Granular materials are often spread with a hand scoop or mechanical spreader. Power sprayers with 1 to 5-hp engines are useful in areas exceeding one acre. Hand or backpack orchard sprayers facilitate treatment of small water bodies. Metering in of chemical with drip systems is effective where compensation for water flow or exchange must be considered.

Frequency of chemical application will vary with each situation. In temperate climates, a single herbicide treatment followed by two or three algaecide applications will keep vegetation under control during the warmer months. In warmer regions, more frequent applications might be necessary. Chemicals are best applied before growth gets out of hand and when water temperatures are above 60°F. Periodic examination of the pond will help in developing the proper maintenance schedule.

Regardless of the product being used, the applicator should familiarize himself with the label to insure proper handling, application, and dosage of the material. Knowledge of applicable state laws, permits, and licensing should be obtained and complied with as well.
Inquiries serviced for 90 days from date of issue. For those countries outside the U.S., please apply appropriate postage before mailing.

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