

MAKE IT EASY ON YOURSELF.

Eliminate the hassles of pesticide residues and reentry restrictions in landscape settings. M-Pede® bioinsecticide controls mites, aphids, whiteflies, adelgids, psyllids, scales and other soft-bodied pests without all the problems.

The neighbor kids can even set up their own enterprise right next door. No delays. No arguments. No hassles.

Make it easy on yourself. For more information on M-Pede, call toll-free: 800-745-7476.



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Always read and follow label directions.
When tank mixing, comply with the most restrictive label instructions.

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**NOW YOU CAN
KEEP YOUR
ONGOING BATTLE
AGAINST
TURF DISEASE
FROM BECOMING
AN UNENDING ONE.**

Fighting turf disease can be a vicious circle. As soon as one fairway is cured, another outbreak is bound to appear.

That's why many of today's top superintendents are tank-mixing Banner® with an effective contact fungicide like Daconil 2787® Flowable.

It allows them to use the most economical rates for the prevailing disease conditions. And its dual mode of action fights disease both inside and outside the plant.

Which doesn't just make turf disease go away. It makes it stay away.



7th Int'l Turfgrass Research Conference

July 18-24, 1993
Breakers Hotel
Palm Beach, Florida

Turf researchers
from 16 different
countries!

- Attend symposia on the latest turfgrass research topics
- Practical information will be presented as well as research papers
- Tour notable turfgrass sites

**First time in the U.S.
in 20 years!**

For more information contact:
Dr. George H. Snyder
University of Florida, IFAS
Everglades Research and
Education Center
Post Office Box 8003
Belle Glade, FL 33430-8003
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Tel: (407) 996-3062
Fax: (407) 996-0339



POLLUTION CLEAN-UP INSURANCE FOR COMMERCIAL LAWN CARE FLEETS AND EQUIPMENT

Through the National Lawn Care Risk Purchasing Group, Inc., Lawn Care firms can now purchase pollution clean-up insurance for spills which are the result of an automobile accident.

Reasonably priced clean-up insurance is available for all sizes of trucks and production equipment providing up to \$100,000. in annual clean-up costs.

Coverage is provided by Lloyd's of London and is subject to a \$2,500. deductible per accident. This program will not replace your automobile insurance—it will fill a void in your current policy. Consult your Agent or Broker to verify that your current policy does not provide pollution clean-up protection.

For further details contact:

**Richard P. Bersnak, Jeanne Bartkus, or Dan Remley
at:**

**M.F.P. Insurance Agency, Inc.
50 W. Broad St., Suite 3200
Columbus, OH 43215
(614) 221-2398**

Circle No. 108 on Reader Inquiry Card

OSU from page 50
on turf."

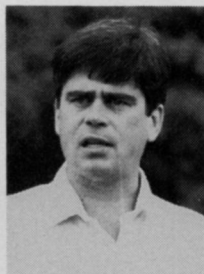
Danneberger is cooperating with OSU's Biotechnology Center, which has isolated a gene that helps plants jumpstart the production of proline, a common amino acid associated with drought tolerance in many plants.

"Proline helps to hold a lot of water," says Dr. Desh Pal Verma, a professor of molecular genetics. "It prevents damage in the cell, so the cell remains alive during drought."

Biotechnologist John Finer is ready to bombard creeping bentgrass tissue with the drought-tolerance gene, and will soon begin work with several varieties of bluegrass.

The Ohio Turfgrass Foundation, Sam Stimmel president, has granted OSU \$100,000 to fund the drought tolerance project, which was to begin April 1st.

**Danneberger:
Turfgrass that's
low-maintenance
is the
goal.**



"The technology that comes out of this," notes Stimmel, "could lead to other things (like) developing pest-resistant varieties, and helping the plant make better use of nitrogen so we need less fertilizer."

Already, researchers who make up OSU's newly-formed Turfgrass Biotechnology Consortium—12 researchers from five departments—are looking at other possibilities.

"This is leading-edge technology," Stimmel says. "There's not another group doing this in the country, on turfgrass."

'We need the tools,' House, EPA are told

WASHINGTON—"Pesticides involve risk. Life itself involves risk," said U.S. Rep. Robert F. Smith (R-Ore.). "It's not pesticides that present the risk but improper use of those pesticides."

Rep. Smith's observation capped a "Specialty Pesticide Federal Symposium" here April 29. Rep. Smith is the ranking Republican on the House Agriculture Subcommittee on Department Operations and Nutrition. More than 30 U.S. congressional aides, members of the U.S. Environmental Protection Agency and Department of Agriculture, attended.

Dr. Joseph Neal of Cornell University pointed out that:

- Gardening is America's No. 1 leisure activity.
- 20 million acres are in home lawns and landscapes.
- 56 million Americans maintain their own lawns.

● 500,000 people make their living from turf care.

● Ornamental crops, including sod, nursery and greenhouse products, represented 10 percent of farmgate wholesale value in 1987.

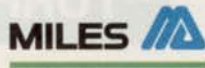
"Cultural practices, such as mowing, cultivars, fertilization and irrigation are essential parts of the equation," said Neal, "but we also need the tools, the pesticides to get rid of the pests."

Others speaking on behalf of the green industry and its need for specialty chemicals: Tom Tri, environmental project manager for St. Louis, Minn.; Dr. Maxwell McCormack, Jr., U. of Maine Cooperative Forestry Research Unit; Bob Andrews, president of The Greenskeeper Inc., Carmel, Ind.; and Dr. Kirk Hurto, director of technical services for TruGreen-ChemLawn.

The only grub control fast enough to compete in the fifty-yard dash.



Nothing works faster than DYLOX insecticide. Plus it has no turf restrictions, it's low odor, and it's available in an 80% water soluble powder and 6.2% granular. So it's easy to apply as well. Which helps when you have to cover a lot of ground. For more information, contact Miles Inc., Specialty Products, Box 4913, Kansas City, MO 64120. (800) 842-8020.



EXPECTED CHANGE, 1992 to 1993

Region	Overall	New Res.	New Comm.	Res. Ren.	Comm. Ren.	Res. Maint.	Comm. Maint.
Northeast	+14.6%	+13.7%	+4.9%	+12.5%	+4.4%	+12.0%	+15.0%
Southeast	+9.4%	+8.8%	+6.8%	+2.9%	+3.3%	+5.0%	+4.8%
Great Lakes	+9.3%	+10.9%	+0.6%	+0.9%	-1.7%	+6.5%	+8.3%
Great Plains	+10.3%	+10.1%	+5.6%	+6.0%	+2.9%	+3.8%	+5.0%
Survey Avg.	+11.6%	+11.5%	+2.9%	+8.9%	+1.4%	+6.7%	+8.8%

ACTUAL CHANGE, 1991 to 1992

Region	Overall	New Res.	New Comm.	Res. Ren.	Comm. Ren.	Res. Maint.	Comm. Maint.
Northeast	+5.6%	-11.7%	-19.3%	+5.2%	-5.3%	+13.1%	+13.6%
Southeast	+4.4%	-10.2%	-2.4%	-5.0%	+1.7%	-3.3%	+5.0%
Great Lakes	+6.0%	+5.8%	-7.7%	+6.1%	-4.0%	-1.1%	-3.7%
Great Plains	+16.1%	+12.4%	+9.0%	+15.0%	+2.8%	+7.0%	+6.2%
Survey Avg.	+7.0%	0.0%	-5.6%	+6.6%	-1.8%	+2.2%	+3.2%

Source: National Landscape Association

New residential business expected to grow by 11.5%

WASHINGTON—New residential installation is the hot ticket in the landscape maintenance market, according to members of the National Landscape Association.

NLA members, in this spring's annual survey, predicted a sales increase of 11.5% this year. Residential renovations are pre-

dicted to be up 8.9% and commercial maintenance up 8.8%.

The toughest market this year, NLA members believe, will be commercial renovation, predicted to grow just 1.4%.

Overall, NLA members expect sales in their industry to grow 11.6% over 1992 figures. Last year, they predicted an

increase of 8% over 1991, but business actually grew just 7%.

The recently-depressed Northeast predicted the largest overall increases this year, 14%, followed by the Great Plains (10.3%), the Southeast (9.4%) and the Great Lakes (9.3%).

(Complete chart above.)

Designed to keep your turf healthy.

BROUWER VERTICAL MOWER

Make sure those expensive chemicals and fertilizers are doing their best job - by getting right to the roots of your turf via aeration created by the Brouwer Vertical Mower.

The Brouwer Vertical Mower also improves water distribution, prevents thatch build-up, improves the success rate of overseeding and reduces surface compaction.



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AFMS seeking new members

SILVER SPRING, Md.—The American Floral Meadow Society is a new professional society formed for the development and improvement of wildflower-grass groundcover plantings for ornamental and low-maintenance uses.

Members of the organization conduct research into selection of wildflower and grass species, formulation of mixes, establishment methods and maintenance.

For a limited time, memberships are \$10 for individuals and \$25 for organizations. For more information contact: AFMS, c/o John Krouse, University of Maryland Dept. of Agronomy, Turf Research and Education Facility, 3120 Gracefield Rd., Silver Spring, MD 20904.

USGA considers 'Record' reprint

CHELSEA, Mich.—Would you like to see the past 15 volumes of the United States Golf Association's "Green Section Record" reprinted in a 7-volume hardcover format?

The USGA, in cooperation with Lewis Publishers here, is examining the interest in such a project. The set will contain all articles exactly as they appeared previously, including a cumulative index released by the USGA at the end of 1991.

The set, if there is enough demand, will be available for approximately \$350. It will have more than 2,000 pages.

If interested in purchasing this item, please contact Kathy Paparelli at the USGA: P.O. Box 708, Far Hills, NJ 07931; (908) 234-2300.

JUNE

11: Iowa Sports Turf Workshop, Loras College, Dubuque, Iowa. Contact: Gary Peterson, (515) 791-0765.

15: Nebraska Turfgrass Field Day and Equipment Show, John Seaton Anderson Turfgrass Research Facility, Lincoln, Neb. Contact: Dr. Roch Gaussoin, (402) 472-8619.

16: Lofts Seed Annual Field Day, Lofts Seed Research Farm, Martinsville, N.J. Contact: Cindy Kinnette, (908) 560-1590; outside N.J., (800) 526-3890.

16: Chesapeake Chapter/Sports Turf Managers Association "Softball Field Renovations," Meadows Park, Chevy Chase, Md. Contact: Tim Moore, (301) 650-2631, or Art Downing, (410) 313-7254.

17-18: Park & Recreation Design Symposium, Little Rock, Ark. Contact: National Institute on Park and Grounds Maintenance, (414) 733-2301.

22: "Diagnosing Landscape Disorders," Riverside, Calif. Contact: HEOF, UC Seminar

INFO CENTER

Useful literature and videos for LM readers

ENVIRO-FIBBERS...Global warming an invention? Ozone depletion untrue? Is the spotted owl in reality far from extinction? The answers to these and other questions about the environment are found in Dixy Lee Ray's new book, "Environmental Overkill; Whatever Happened to Common Sense?" Cost is \$19.95. Contact: Regnery Gateway, 1130 17th St. NW, Suite 600, Washington, D.C. 20036; (202) 457-0978.

CONCRETE PAVERS...The Concrete Paver Institute publishes a basic guide to interlocking concrete pavements. The three-ring guide is in four sections: Basic Skills; Managing a Job and Job Site; Advanced Job Situations; Advanced Product Knowledge. Contact: Concrete Paver Institute, 2302 Horse Pen Rd., Herndon, VA 22071-3406; (703) 713-1900.

MOUNTAIN PLANTS..."Flora of West Virginia" presents descriptions, illustrations, geographical data and other information on about 2,200 species found growing without cultivation in West Virginia and throughout the Appalachian and surrounding region. The book costs \$40. Contact: Seneca Books, Rt. 6, Box 81-B, Morgantown, WV, 26505; (304) 594-1324.

MEMBER DIRECTORY...A directory of the nation's leading grounds professionals is available from the Professional Grounds

Management Society. It is free to members, \$38 for non-members. Contact or send check or money order to the Professional Grounds Management Society, 120 Cockeysville Rd., Suite 104, Hunt Valley, MD 21031; (410) 584-9754.

CITY SLICKERS..."Urban Trees: A Guide for Selection, Maintenance, and Master Planning" by Leonard E. Phillips, Jr., presents detailed guidelines on everything from cataloging and maintaining existing trees to selecting the right trees for future planting. How to use new computerization methods to take a street tree inventory; how to choose trees to fit a specific climate and site; how to implement a high-power, cost-saving maintenance program; and how to work within the scope of the policies, laws and regulations that govern city streets and parks. Contact: McGraw-Hill, (800) 262-4729.

TOOLIN' AROUND...Retailers of Husqvarna equipment might like the company's new video series on product set-up to sales training. The nine videos cover a variety of subjects and benefits relative to Husqvarna equipment. They include information on safety, dealer support programs, customer service training, and business advice. Contact: Husqvarna Forest & Garden Co., 9006 J Perimeter Woods Dr. Charlotte, NC 28216; (704) 597-5000.

GREEN INDUSTRY EVENTS

Coordinator, (602) 684-7308.

22: "Estimating & Managing Principles," Phoenix, Ariz., with Charles vander Kooi. Contact: Arizona Landscape Contractors' Association, (602) 956-4252.

26: Park Seed Flower Day, Greenwood, S.C. Contact: Karen Jennings, (800) 845-3369.

30: National Midwest Regional Sports Turf Institute Trade Show, Wheaton (Ill.) College. Contact: Mike Trigg, (708) 360-4750.

JULY

13-14: "Bulbs for All Seasons" Short Course, Pittsburgh Civic Garden Center. Contact: Michael Masiuk, (412) 392-8540.

14-16: American Sod Producer's Association Summer Convention and Field

Days, Nashville, Tenn. Contact the ASPA at 1855-A Hicks Rd., Rolling Meadows, IL 60008; (708) 705-9898.

14: VPI-SU Nursery Field Day, Hampton Roads Agricultural Experiment Station, Virginia Beach, Va. Contact: Hampton Roads Station, (804) 363-3900.

14-15: MAPPA-PGMS Grounds Management Conference, Oxford, Ohio. Contact: George Persinger, Miami University, (513) 529-6786.

15: Southern Illinois Nurseryman's Association Field Day and Trade Show, Dintelmann Nursery, Belleville, Ill. Contact: Dintelmann Nursery, (618) 233-4638.

15-16: ASPA Summer Convention and Field Days, Opryland Hotel, Nashville, Tenn. Contact: American Sod Producers Association, (708) 705-9898.

18-20: Mid-Atlantic Nurserymen's Trade Show, Baltimore Convention Center. Send \$8 pre-registration to MANTS, P.O. Box 314, Perry Hall, MD 21128.

Let it on your course, and you may have to answer
to a mob of angry people carrying clubs.



Dollar spot

Your golfers want to play on healthy greens, tees and fairways. So if they run across Dollar spot, they'll probably end up running you down.

That's why you need the superior protection of Daconil 2787® fungicide. It controls summer diseases like Dollar spot on all Northern area grasses — including Bentgrass tees, greens and fairways.

Daconil 2787 also provides effective broad-spectrum control of 17 other disease-causing organisms. That includes those that cause Brown patch, Leaf spot and Anthracnose. Plus, it's now registered for effective control of algal scum. And you can count on Daconil 2787 to protect labeled ornamental plantings and plant beds from disease.

So make Daconil 2787 the most important component in your turf management program. Remember, it's an excellent contact fungicide for disease resistance management. Use Daconil 2787. It helps keep the people carrying clubs happy with you.

ISK Biotech Corporation, Turf & Specialty Products Division, 5966 Heisley Road,
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Nothing performs like Daconil 2787. Nothing.

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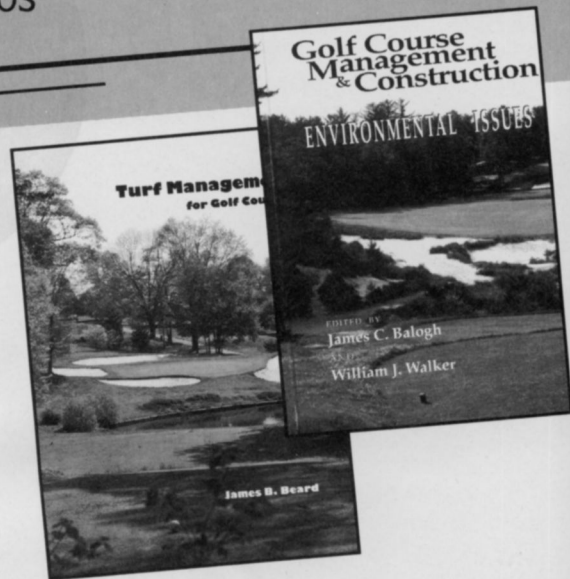
Golf

Golf Course Management and Construction: Environmental Issues

edited by James C. Balogh, Ph.D., William J. Walker, Ph.D.
For turfgrass specialists, landscape and golf course architects, developers, superintendents and land-use regulators, this volume summarizes and assesses environmental effects of turfgrass system construction and maintenance. Covers water resources, fertilization, pesticides, integrated management systems, wildlife, wetlands, aquatic and terrestrial toxicity tables. 976pp. BK-617-\$65.00

Turf Management for Golf Courses by James Beard

Written by the eminent turfgrass researcher, this USGA sponsored text is an ideal reference and "how to" guide for your bookshelf. This comprehensive guide details all phases of golf course operations including course design and construction, turf management, course administration, irrigation, equipment, and disease and pest control. 642pp. BK-615-\$74.00



Turf

Turf Managers' Handbook by Daniel and Freeborg

2nd. ed. Totally revised and updated, this valuable and practical guide targets the turf practitioner. Chapters on grasses, growth regulators and diseases have had extensive modifications. Innovations resulting from research and practice have been added to reflect the current techniques available for turf manager. 437pp. BK-110-\$39.95

Controlling Turfgrass Pests by Shurtleff, Feramanian, Randell

New comprehensive guide provides the most up-to-the-minute information available on the identification, biology, control and management of every type of turfgrass pest. 449pp. BK-220-\$56.95

Turf Management Handbook by Howard Sprague

This is a practical guide to turf care under both healthy and poor turf conditions. Chapters cover turf in cooler and warmer regions, fertilizer use, regular turf care, weed and disease control, and special turf problems. Useful seasonal schedules for management of turf areas. 255pp. BK-620-\$26.60

Landscapes Management's Pocket seed Guide

You'll refer to this handy guide again and again. It provides sections on why seed?, overseeding, Florida study, adaptability and disease susceptibility. Section 2 covers the National Turfgrass Evaluation Program results about perennial rye grass, Kentucky blue, Bentgrass, and Fineleaf fescues. Quick supplier listing included. 36pp. BK-655-\$10.00

