weeds.

annual

weeds.

and many

broadleaf

TAKE CONTROL WITH PENDIMETHALIN.

If crabgrass is a growing problem on your turf, you're not using the right herbicide. What you need is Pendimethalin.

No other preemergent offers a broader spectrum of control. Fact is, this high-performance herbicide effectively controls crabgrass, most annual grassy

CRABGRASS CONTROL				
PRODUCT	Rate (lb ai/A)	% Control 97 DAT 129 DAT		
PENDIMETHALIN 60WDG	3.0			
PENDIMETHALIN 60WDG	1.5+1.5			
BARRICADE 65WG ^a	0.75			
DIMENSION 1EC	0.5			
TEAM .87 FG ^c		88		

Ohio State University 1996

And Pendimethalin has excellent turf tolerance. University and field research studies have shown that Pendimethalin provides consistent, superior weed control-yet offers tremendous tolerance to warm- and cool-season turfgrasses.

Here's how it works: After Pendimethalin makes contact with the germinating weed seed, it disrupts the seed's biochemical

processes, which makes the weed seed

CRABGRASS CONTROL					
PRODUCT	Rate (lb ai/A)	% Control 84 DAT 154 DAT			
PENDIMETHALIN 60WDG	3.0				
PENDIMETHALIN 60WDG	1.5+1.5				
BARRICADE 65WG ^a	0.75				
DIMENSION 1EC	0.5				
RONSTAR 2G ^d			24		

Virginia Polytechnic Institute & State University

stop growing—and start dying—before emerging.

What's more, Pendimethalin works hard-and long.

Through the entire season. That's because its low volatility and slow decomposition characteristics keep it active in the soil longer.

Pendimethalin also makes your life easier. You

have the flexibility to spread it on as a dry granule,

alone, or in	CRABGRASS CONTROL		
combination	PRODUCT	Rate (lb ai/A)	% Control
with fertilizer	PENDIMETHALIN 60WDG		
	BARRICADE 65WG*		
products. Or	DIMENSION 1EC		
	RONSTAR 2G	3	92
you can use	Penn State University 1996		

Penn State University 1996

the sprayable formulations, available as a 3.3 EC, 60 WDG and 60 WP.

No wonder professional turf managers have made Pendimethalin the #1 preemergent herbicide.

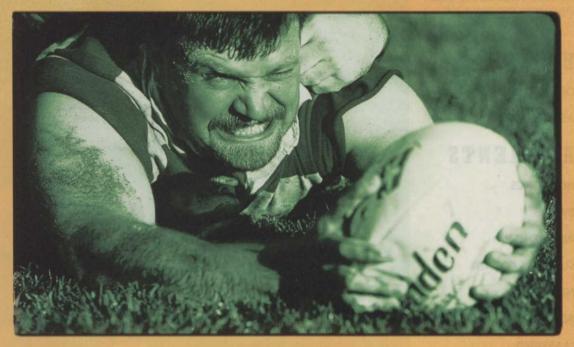
So take control of your turf-and your reputation. Use Pendimethalin herbicide to control crabgrass and more. Because the only thing you should see growing like a weed is beautiful grass.

Call now for more information or for the distributor nearest you.

1-800-545-9525

extension 1609A

DEVELOPING RUGBY II WAS A PAINFUL PROCESS.



JUST ASK OUR RESEARCHERS.

Before we introduced Rugby II, we dragged it through one of the most grueling development processes ever. We grew it under the severest conditions. We played hard on it. We even ignored it. In the end, we ended up with the most durable, low maintenance turf around. One with excellent winter color and outstanding resistance to most Bluegrass diseases. Sure, Rugby II made life hard on our researchers. But it'll make your life a little easier.





MARCH 1998 VOLUME 37• NUMBER 3

INSIDE



ON THE COVER: AT POST GREEN HILLS, NASHVILLE, TENN., TROPICAL FOLIAGE IS COMBINED WITH SUMMER FLOWERS. PHOTO COURTESY TODD TIBBITTS, POST LANDSCAPE.

COLUMNS

8 OPENING SHOTS

12 ASK THE EXPERT

DEPARTMENTS

14 HOT TOPICS

69 EVENTS

70 INFO CENTER

70 SUPPLIERS CORNER

72 PRODUCTS

85 AD INDEX

22 CLASSIFIED

86 GRAB BAG

THE VOICE OF THE GREEN INDUSTRY

LANDSCAPE management

FEATURES

17 SPECIAL SUPPLEMENT: SOLUTIONS FOR TODAY AND TOMORROW

The Dow AgroSciences company brings news of product solutions, and the people who are using them.

34 MIRACLE WORKERS?

The green industry demands that its mechanics be repairmen, managers, and, yes, sometimes even diplomats and trainers.

38 LM REPORTS: LINE TRIMMERS

When buying a line trimmer, consider engine size or power, the weight of the trimmer, and whether it offers an anti-vibration system to make operation more comfortable.

42 GUIDE TO WEED CONTROL IN THE NORTH AND THE SOUTH

Vigorous turfgrass does not provide 'room' for weeds. Winter broadleaf weeds can be an opportunity or a headache for the turf manager.

DR. FRANK ROSSI

DR. BERT MCCARTY

F PERENNIALS FOR SHADY SPOTS

There are different kinds of shady areas, and perennials that thrive in partial or full shade.





LANDSCAPE MANAGEMENT (ISSN 0894-1254) is published monthly by Advanstar Communications, Inc. Corporate, editorial and advertising offices: 7500 Old Oak Blvd., Cleveland, OH 44130. Accounting, advertising production and circulation offices: 131 West First St., Duluth, MN 55802.

advertising production and circulation offices: 1.31 West First St., Dulum, MN 55802.

Subscription rates: one year, \$39, two years \$58 (U.S.); one year \$6, two years \$99 (Canada and Mexico); one year \$130, two years \$195 (all other countries). For air mail delivery, include an additional \$70 per order annually. Current issue single copies (pre-paid only): \$4 (U.S.); \$7 (Canada and Mexico); \$12 (elsewhere); add \$3.50 per order for shipping and handling. Back issues, if available, \$10 (U.S.); \$14 (Canada and Mexico); \$20 (other countries); add \$3.50 per order for shipping and handling (pre-paid orders only). To subscribe, call (218) 723-9477; all (218) 723-9477.

Office of publication: Advanstar Communications, Inc., 131 W. First St., Dulum, MN 55802. Period at Duluth, MN 55802 have additional mailing offices.

Copyright ©1997 by Advanstar Communications, Inc. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, in-

Copyright ©1997 by Advanstar Communications, inc. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from Advanstar Marketing Services, Attn: Permissions, 7500 Old Oak Blvd., Cleveland, OH 44130 or phone (800) 225-4569 x742. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by Advanstar Communications for libraries and other users resistered with the Copyright Clearance Center.





Canadian G.S.T. Number: R-124213133, IPM number: 841919

POSTMASTER: Send address changes to Landscape Management, P.O. Box 6198, Duluth, MN 55806.



Tough Choice for Hard Hats

Two tough machines to get you into and out of tight spots. Our loader/landscaper tractors – the Kubota B21 with 21 horsepower and the L35 with 35 horsepower – give you two ways to go when you're moving dirt.

Both tractors are compact and powerful for working in close quarters. They feature a slanted, hard-nose hood and enclosed muffler for better visibility. A liquid-cooled diesel engine, power steering and 4-wheel drive are all standard features.

The B21 features a user-friendly hydrostatic transmission with 3-speed range.



While the L35's new generation Glide Shift Transmission operates all eight speeds and reverse without clutching.

Integrally designed, the front loader on the B21



and L35 have a convenient single-lever/dual function control with an increased lifting capacity. The backhoe is a cinch to quick-attach while the rear PTO and 3-point hitch maximize

your applications. Dig, till, scrape or mow with one tractor. Both tractors are easy to transport on a utility trailer, so they go where you go. And this tough team is solidly built to Kubota's rigorous standards.

So, small wonder these compacts are the choice for breaking ground with contractors and municipal diggers everywhere. See your dealer today and size up these versatile compacts.

For more information, please write to:

Kubota

KUBOTA TRACTOR CORPORATION

P.O. Box 2992, Dept. LM, Torrance, CA 90509-2992 or call Toll Free 1-888-4 KUBOTA ext. 403

(1-888-458-2682 ext. 403)
Financing available through Kubota Credit Corporation



THE HIGH PERFORMANCE CONVERTIBLE WITH FOUR TOPS.



At Echo, we've been giving landscaping professionals exactly what they need for over twenty-five years: superior outdoor power equipment that more than performs...day after day after bumping, jostling, banging, hard-working day.

The result? Power equipment that exceeds professional demands for quality, durability and dependability. Echo Pro Performance. Built by the team that knows what professionals need. Maybe that's why more landscaping professionals choose Echo than any other brand of outdoor power equipment. For more information on Echo Pro Performance products call 1-800-432-ECHO (3246).







Poke holes, make money

When it comes to aeration, Millcreek gives you more choices, faster delivery, and more ways to help you promote your aeration business.

Models to Fit Your Equipment With so many models to choose from, you'll find a Millcreek aerator to fit your existing equipment.

Rugged Construction Millcreek Aerators are no-nonsense workhorses that get the job done and keep on working and earning.

Affordable Prices You won't find more competitive pricing anywhere in the market.

Guaranteed Fast Delivery Order by 1PM Eastern time, your aerator shipped next business day or we pay the freight.

Free Offer Call today. We'll send you a FREE "Aeration for Profit" kit, with ad slick and reproducible handout flyer.







1-800-879-6507

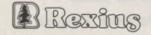
Circle No. 152 on Reader Inquiry Card

e Ultimate



No more wheelbarrows! Add speed, efficiency, productivity and profit to your landscaping and erosion control projects with an

- Blows organic mulch with a range of up to 350 ft with a flow rate of up to 55 cu. yds. per hour.
- One man operates the system by remote control for "on demand"
- Features automatic feed & dust suppression systems (patents pending).



6

800-285-7227

For product information: expressblower.com

Circle No. 153 on Reader Inquiry Card

EDITORIAL STAFF

Terence McIver Editor-in-Chief (440) 891-2709 E-mail: tmciver@advanstar.com

Ron Hall

Managing Editor (440) 891-2636 E-mail: rhall@advanstar.com

Vernon Henry Group Editor (440) 826-2829 Lisa Lehman Art Director (440) 891-2785

Lisa Bodnar Graphic Designer (440) 891-3101

READER ADVISORY PANEL

Jerry Coldiron Boone Links / Lassing Pointe G.C. Florence, Ky. Larry Iorii Down to Earth Landscaping Wilmington, Del.

Rick Kier Pro Scapes Jamesville. NY

David Mellor Milwaukee Brewers Milwaukee, Wisc

BUSINESS STAFF

John D. Payne Group Publisher (440) 891-2786 E-mail: jpayne@advanstar.com

Brenda Dunlap Administrative Coordinator (440) 891-2734 Linda O'Hara Senior Production Manager (218) 723-9281 Karen Laszlo Controller/Marketing Director (440) 891-2705

Debi Harmer Production Director (218) 723-9325 Karen Edgerton Circulation Manager (218) 723-9280

Lynn Viele Green Book Coordinator (218) 723-9393

ADVERTISING OFFICES

Headquarters 7500 Old Oak Blvd. Cleveland, OH 44130-3369 (440) 243-8100 Fax: (440) 891-2675

Patrick K. Toal Eastern Sales Manager 3101 Sawgrass Village Circle Ponte Vedra Beach, FL 32082 (904) 280-4205 Fax: (904) 280-2122

E-mail: ptoal@advanstar.com

Tom Galligan National Sales Manager

3901 52nd Ave. Kenosha, WI 53144-1830 (414) 653-9523 Fax: (414) 653-9524 E-mail: tgalligan@advanstar.com

John Kiesewetter Western Sales Manager

Western Sales Manager 859 Willamette St. Eugene, OR 97401 (541) 461-0022 Fax: (541) 461-0044 E-mail: jkiesewetter@advanstar.com

Bill Smith Classified / Market Showcase (440) 891-3162

Anthony Lavdas Directory Sales (800) 736-3665

MARKETING SERVICES

Marcie Nagy Reprints (100 minimum) (440) 891-2744

Mike Balzano Circulation List Rental (800) 225-4569, ext. 697

Advanstar Marketing Microfiche/film Copies (800) 225-4569, ext. 839

Chris Baxter Subscriber/Customer Service

Debra Carlson

International Licensing (218) 723-9518 Books, directories, back issues, photocopies (800) 598-6008; (218) 723-9180



Chairman and Chief Executive Officer Robert L. Krakoff

Vice Chairman James M. Alic

VP, Business Development Skip Farber

VP/Finance, CFO and Secretary David W. Montgomery

Executive Vice Presidents William J. Cooke, Alexander S. DeBarr, Brian Langille, Glenn A. Rogers

Treasurer & Controller Adele D. Hartwick

LANDSCAPE management

A proud supporter of these green industry professional organizations:



Associated Landscape Contractors of America 150 Elden Street, Suite 270, Herndon, VA 20170 (703) 736-9666; http://www.alca.org



American Nursery & Landscape Association 1250 I St. NW, Suite 500, Washington, DC 20005 (202) 789-2900



Golf Course Superintendents Assn. of America 1421 Research Park Dr. Lawrence, KS 66049-3859 (913) 841-2240; http://www.gcsaa.org



Independent Turf and Ornamental Distributors Association 1217 Wayburn Grosse Pointe Park, MI 48230 (313) 331-7739

International Turfgrass Society Crop & Soil Environmental Sciences, VPI-SU, Blacksburg, VA 24061-0403 (561) 996-3062



National Arborist Association
The Meeting Place Mall, P.O. Box 1094,
Amherst, NH 03031-1094
(603) 673-3311; http://www.natlarb.com



National Golf Foundation 1150 South U.S. Highway One, Jupiter, FL 33477 (407) 744-6006



Ohio Turfgrass Foundation P.O. Box 14824, Columbus, OH 43214 (614) 261-6750



The Outdoor Power Equipment Institute 341 South Patrick St. Old Town Alexandria, Va. 22314 (703) 549-7600; http://opei.mow.org



Professional Grounds Management Society 120 Cockeysville Rd., Suite 104, Hunt Valley, MD 21031 (410) 584-9754



Professional Lawn Care Association of America 1000 Johnson Ferry Rd., NE, Suite C-135, Marietta, GA 30068-2112 (770) 977-5222; http://www.plcaa.org



Responsible Industry for a Sound Environment 1156 15th St. NW, Suite 400, Washington, DC 20005 (202) 872-3860



Sports Turf Managers Association 1375 Rolling Hills Loop, Council Bluffs, IA 51503-8552 (712) 366-2669; (800) 323-3875; http://www.aip.com/stma

TOCA

Turf and Omamental Communicators Association P.O. Box 156, New Prague, MN 56071 (612) 758-5811

Publication!

This new single-source reference provides the most current and comprehensive information on the basics of turfgrass and landscape management available today!

The Landscape Management Handbook

edited by William E. Knoop 125 pages, softcover Item #LSMB830 \$34%

Provides an overall understanding of turf and landscape care and management and covers all the basics of the green industry



- Covers all the topics both golf course superintendents and students of turfgrass and landscape management need to know about
- Combines practical information with the tried and true basics of management to provide a single, practical, affordable and up-to-date text

The Landscape Management Handbook provides a unique, single-source reference of comprehensive information on a variety of turf and landscape topics. It's an ideal handbook for golf course and lawn care superintendents and crew members, and is also appropriate for schools that teach basic turf and landscape management.

Call 1-800-598-6008

Fax: 218-723-9146 Outside the U.S. 218-723-9180

ADVANSTAR MARKETING SERVICES Customer Service Dept. • 131 W. 1st St., Duluth, MN 55802

Shipping/Tax: UPS—add \$5 per order, plus \$1 per additional book. International, Hawaii, Alaska, Canada and expedited shipments—call for rates. Residents of CA, CT, GA, IL, MN, NJ, NY, OH and TX must add sales tax. Price subject to change.

om Delaney, long time government affairs director for the Professional Lawn Care Association of America, has been named executive vice president of the Marietta, Ga.-based association.

The appointment ends a year-long search to find a replacement for Ann McClure, who resigned the post in March 1997.

"We went through over 600 resumés," says

PLCAA names Delaney new director; members are

top priority.

PLCAA President Larry Messina. "We realized that Tom, who had been interim executive vp, had the talent and skills we needed."

"I was watching the process at different junctures, and thought we would have found someone [from outside the association]," says Delaney, "but we never had a complete fit. I decided to accept the challenge.

"The board and I are looking at the member interests as our first priority.

We want what's best for the industry and the association. I think I can meet the call and the challenge.

"I've been here long enough to know where we are and what's going on."

Delaney adds that he will remain as government relations liaison, at least for now.

"I'm still going to talk to every member who calls with a question on government affairs," he says.

In other PLCAA news, Bob Andrews of The Greenskeeper, Carmel, Ind., will advise PLCAA on marketing and membership development and retention initiatives.

Andrews, himself an ex-president of PLCAA, who, along with Delaney and all of the PLCAA board, sees the need members have for information. New companies, says Andrews, need help to stay afloat.

"At the Indiana State Association, we have

given the members what they wanted: basic education. The new companies coming in to the lawn care industry are very small operations. They know how to do the [technical] work but they don't know how to run the business."

Why is this

the Green

Industry?

good news for

Because small

companies are

the backbone

of all Green

segments and

Industry

Delaney agrees, and says that's one reason PLCAA began its "Mentor Program," which gives established company owners a chance to share what they know with new companies.

"The new companies need information on running a business," says Delaney. This information includes help with employee, marketing and bidding issues.

Delaney says mentores now total about 40 or 50. At press time, PLCAA needed 23 mentors. (If you're an LCO who wants to help out a new member, call PLCAA at 800/458-3466.)

Lawn care operators are more frequently diversifying their service mix, which means they need more information on a variety of services.

"There are really very few firms who say 99 percent of their income comes from lawn care," says Andrews.

"In the Indiana State Lawn Care Association, only 50 percent of our members are LCOs. Other members include irrigation contractors and parks and recreation professionals. (Andrews is director of the Indiana LCA.)

"I think Tom Delaney is going to be excellent in the executive vice president post," says Andrews. "And you've got Bob Ottley, Jerry Grossi and President Larry Messina serving [among others]. These are solid people.

"I would not be surprised if there were a lot of changes in the next six to eight months." ${\bf LM}$



Derry The Jan

TERRY MCIVER Editor-in-Chief

WALK, CHEW GUM.



HANDLE MORE THAN ONE PROJECT AT A TIME WITH NEXTEL DIRECT CONNECT.

Nextel phones were built with a job like yours in mind. That's why only our Motorola® digital cellular phones have the exclusive Nextel Direct Connect™ feature. This works like a digital two-way radio so you can instantly contact your co-workers with the push of a button. No voice mail. No waiting. Plus, with Nextel Direct Connect™ you can talk as much as you want for a fraction of the cost of cellular. So go ahead, walk to the phone and give us a call. NEXTEL®
YOU'VE NEVER USED A PHONE LIKE THIS BEFORE™ CALL 1.800.NEXTEL9.

©1998 Nextel Communications. All rights reserved. Nextel, the Nextel logo, Nextel Direct Connect and You've Never Used A Phone Like This Before are trademarks and/or servicemarks of Nextel Communications, Inc. "Motorola is a registered trademark of Motorola, Inc. www.nextel.com"













