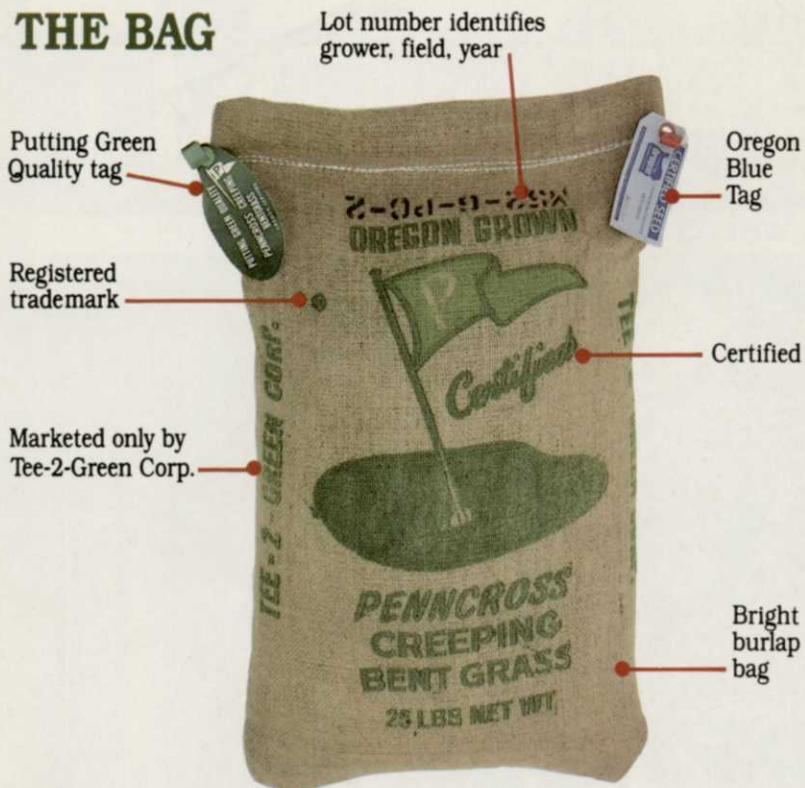


# PURE. PENNCROSS.

## THE BAG



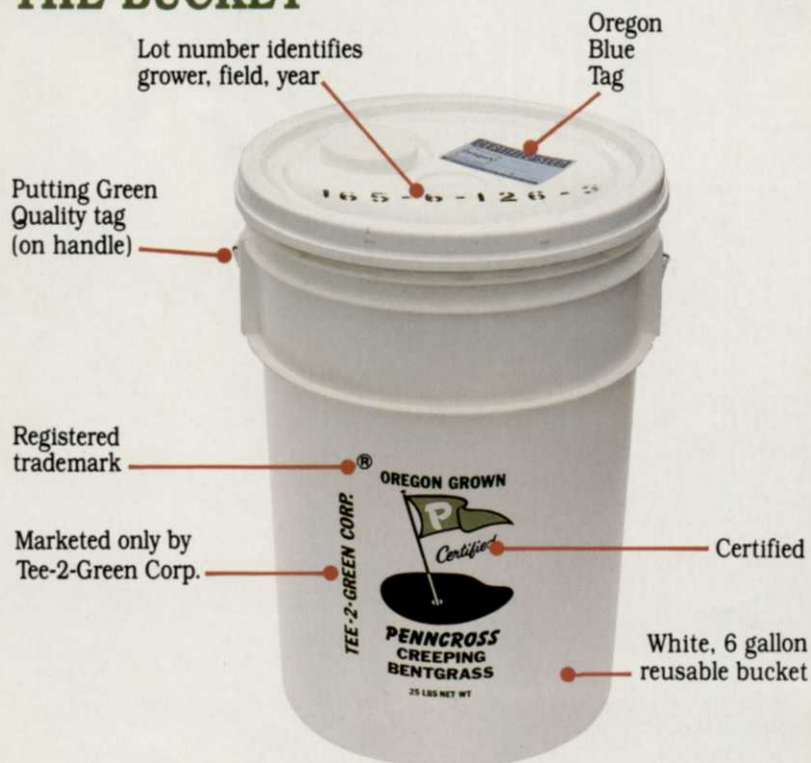
For more than 30 years, Penncross remains the most specified putting green grass . . . of any species.

Talk about tried and true! Penncross creeping bentgrass has established a track record that stands to this very day. Steady performance through heat, drought, snow, storms and floods have established Penncross as *the* premium putting green surface for the most demanding players and superintendents.

This reputation can only be earned through years of dependable service. . . and most importantly. . . consistent putts!

A putting green is no place to putter around with an unknown bentgrass. Go with what you know. . . and you *know* Penncross from its years on top of the leaderboard.

## THE BUCKET



## THE SEED



## THE GREEN



Available through select distributors

**TEE-2-GREEN CORP.**

PO BOX 250 • HUBBARD, OR 97032

FAX - 503-981-5626

1-800-547-0255 • TWX 510-590-0957

Penn State University authorizes Penncross seed to be grown only from stolons and sold only as certified seed. Seed produced from Penncross seed cannot be labeled Penncross.

When good shots end up in bad lies on dollar spotted fairways, it can spot your course's reputation.

That's good reason to put Rubigan® in play. Dollar for dollar, nothing controls dollar spot better.

Just one Rubigan application controls even resistant strains of dollar spot for up to 28 days. And one case of Rubigan will treat up to 8 acres of greens and fairways.

Rubigan is the only fungicide labeled to treat and prevent all these other turf spoilers, too: Fusarium leaf spot, necrotic ring spot, summer

patch, take-all patch and spring dead spot — plus large brown patch with a Daconil 2787® tank mix.

Keep your fairways, tees and greens dollar spotless — looking clean and beautiful all season long. Get Rubigan from your Elanco distributor. Or call toll-free: **1-800-352-6776.**

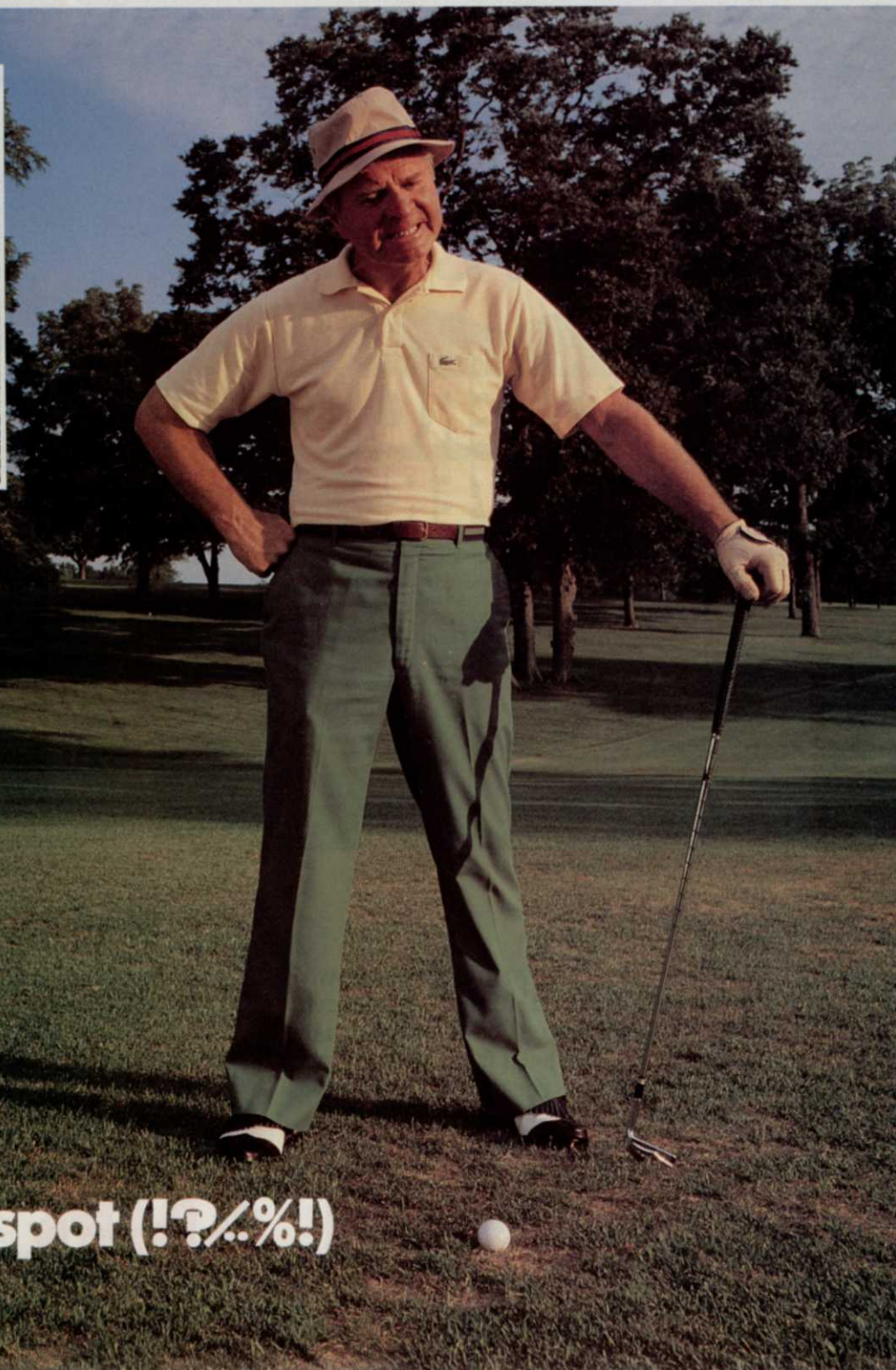
Elanco Products Company  
A Division of Eli Lilly and Company  
Lilly Corporate Center  
Dept. E-455, Indianapolis, IN 46285, U.S.A.  
Rubigan® — (fenarimol, Elanco)  
Daconil 2787® — (chlorothalonil, SDS Biotech)



Circle No. 109 on Reader Inquiry Card



**From  
sweet spot**

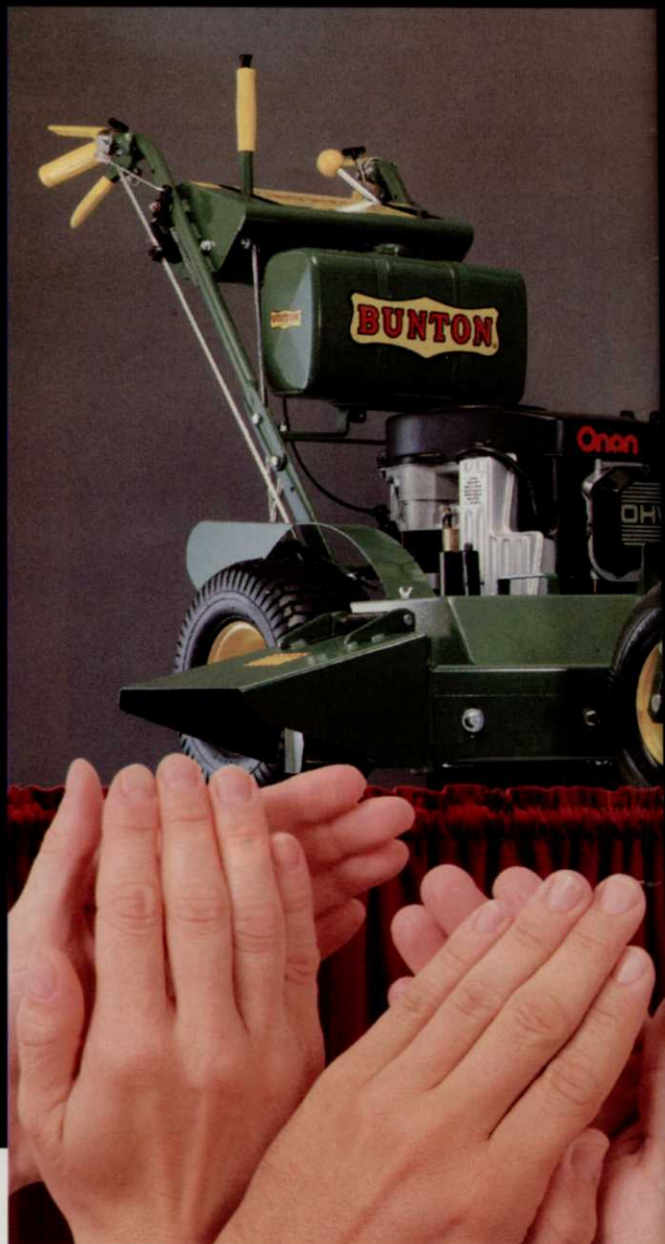


**...to dollar spot (!?!%!!)**

# REPEAT PE

**BUNTON**<sup>®</sup>

**COMMERCIAL  
MOWERS**



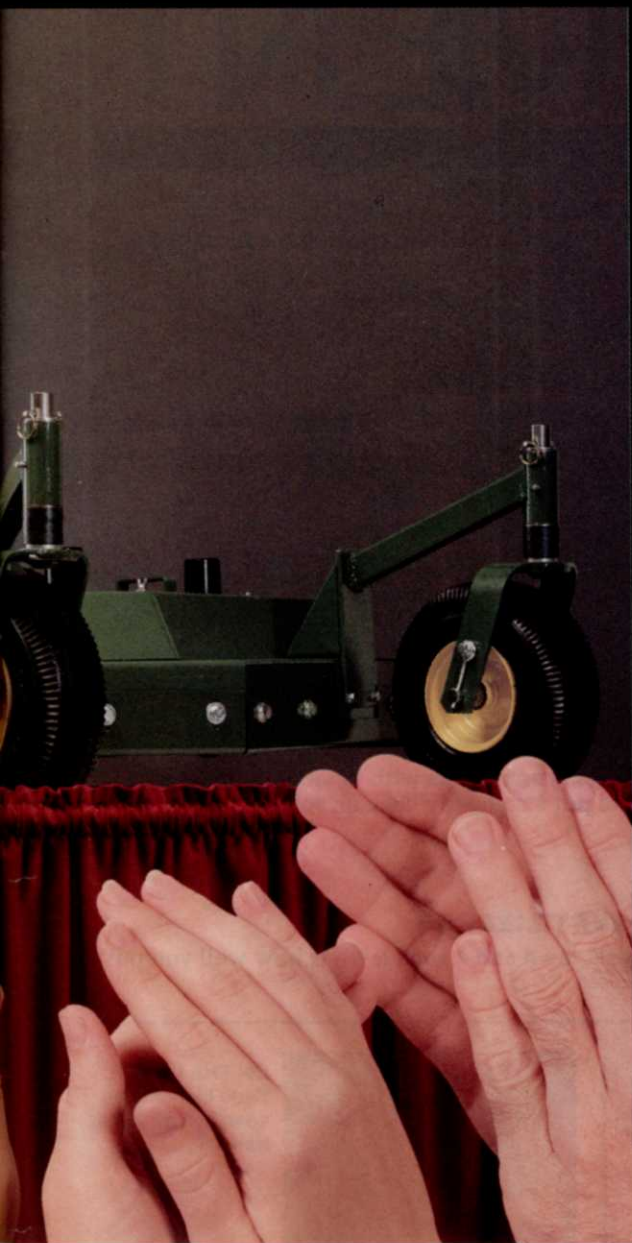
Bunton mowers have long been known as "repeat performers." Decks are reinforced heavy gauge welded steel, components that other manufacturers make from aluminum are steel, and all critical wear points have fittings so they can be greased for longer life. These, and other features have earned Bunton the

reputation as the mower you can depend on every morning, year after year. They are so durable Bunton mowers are backed by a two year warranty.

Wouldn't you like to run Bunton mowers with a high performance 12.5 hp OHV engine that is technically advanced, made in

# MOW ON-AND-ON WITH

# PERFORMERS



## COMMERCIAL ENGINES

America, has guaranteed parts availability and is built for the repeat performance that commercial mowing demands? The Onan 12.5 sets a new standard for commercial mowers. All of the features of an OHV, combined with an overall superior design, make it the engine of choice for most commercial applications.

To learn how to mow on-and-on, call your Bunton dealer today for a demonstration.

**BUNTON CO.**

P.O. Box 33247

Louisville, KY 40232 USA

Phone: 502-966-0550 • Fax: 502-966-0564 • Telex: 204-340



# H BUNTON-AND-ONAN

# LANDSCAPE MANAGEMENT

Formerly WEEDS TREES & TURF



32

## 24 COVER STORY: SEED BLENDS

With so many seed mixes and blends available, creating the ideal turf is easier than ever before.

## 32 ARCHITECTS AS PROBLEM SOLVERS

Brynwood Country Club saved time and money by working with a local landscape architect to solve drainage problems.

## 38 THE BLACK DEATH

Exactly where black layer comes from remains a mystery, but there are steps you can take to get rid of it.

## 42 DOWN BUT NOT OUT

Filing bankruptcy is not always synonymous with 'tossing in the towel.' Knowing the difference could put a company back on solid ground.

## 46 SOIL FERTILITY AND FERTILIZERS

The difference between a great lawn and a good lawn is how well you put fertilizers to work.



46

### DEPARTMENTS

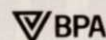
- |                              |                              |
|------------------------------|------------------------------|
| <b>6</b> NEWS/TRENDS         | <b>56</b> JOBTALK            |
| <b>8</b> GREEN INDUSTRY NEWS | <b>60</b> PRODUCTS           |
| <b>50</b> ATHLETIC TURF      | <b>64</b> CLASSIFIED         |
| <b>52</b> ON DESIGN          | <b>74</b> AD INDEX           |
| <b>54</b> INSURANCE INSIGHTS | <b>76</b> PROBLEM MANAGEMENT |



ON THE COVER:  
Seed blending as  
seen by Larry  
Kassell

LANDSCAPE MANAGEMENT (ISSN 0894-1254) is published monthly by Edgell Communications, Inc. Corporate and Editorial offices: 7500 Old Oak Boulevard, Cleveland, Ohio 44130. Advertising Offices: 7500 Old Oak Boulevard, Cleveland, Ohio 44130, 111 East Wacker Drive, Chicago, Illinois 60601 and 3091 Maple Drive, Atlanta, Georgia 30305. Accounting, Advertising Production and Circulation offices: 1 East First Street, Duluth, Minnesota 55802. Subscription rates: \$25 per year in the United States; \$50 per year in Canada. All other countries: \$100 per year. Single copies (pre-paid only): \$2.50 in the U.S.; \$4.50 in Canada; elsewhere \$8.00; add \$3.00 for shipping and handling per order. Office of publication: Edgell Communications, Inc., 1 East First Street, Duluth, Minnesota 55802. Second class postage paid at Duluth, Minnesota 55806 and additional mailing offices. Copyright© 1988 by Edgell 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 the publisher.

POSTMASTER: Send address changes to LANDSCAPE MANAGEMENT,  
P.O. Box 6198, Duluth, Minnesota 55806.



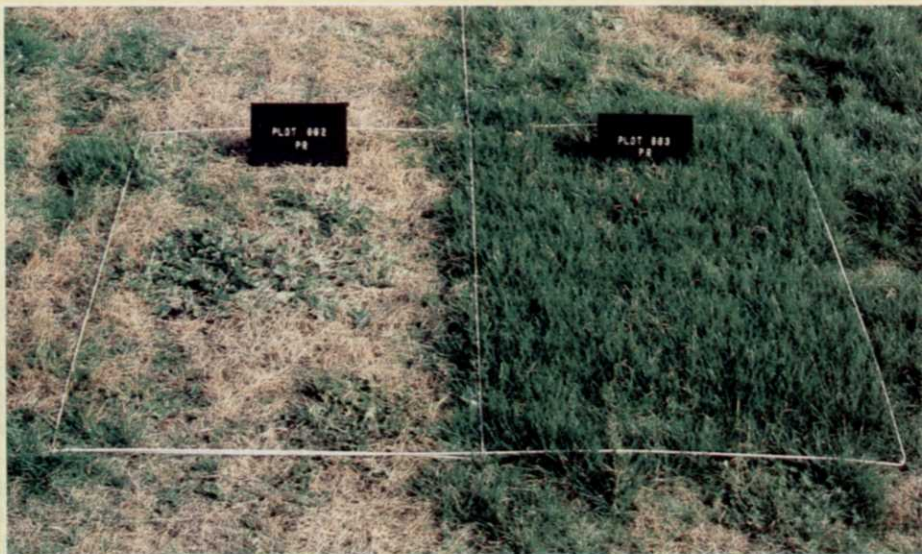
Turf-Seed's

# CITATION II

contains naturally pest resistant endophyte

... a fungus that occurs within plant tissue between the cells.

New turf breeding discovery proves resistance to bill bugs, sod webworm, and other pests without harmful chemicals!



Left, insect damage in perennial ryegrass. Right, endophytic ryegrass resists insect pests.

## CITATION II Turf-Type Perennial Ryegrass

is well known for its rapid establishment, fine texture, dark green color, improved mowability and drought tolerance, both in a monostand or as part of CBS II blend. But, the REAL plus is Citation II's high endophyte level (over 80%) that make it naturally resistant to leaf eating insects.

This plus results in savings . . . in chemical costs to maintenance people and less exposure to insecticides for applicators, homeowners, golfers and picnickers.

Citation II is not only an investment in finer turf, but it's a savings account for turf managers . . . and our delicate planet.

PVP 8400142. Unauthorized propagation prohibited.



Black lines are endophyte mycelium in leaf tissue.



Magnified endophyte in seed.

Qualified turf grass associations can earn cash for turf research by saving Citation II Oregon certified blue tags. Call us or write for details.



Produced and marketed by:

**Turf-Seed, Inc.**

PO Box 250, Hubbard, OR 97032  
Outside Oregon 1-800-247-6910  
503-981-9571 TWX 510-590-0957  
FAX 503-981-5626

## New ornamental crop

■ A flower-inducing hormone applied by a floriculture specialist at the Institute of Food and Agricultural Sciences (IFAS) at the University of Florida is expected to bring a popular landscape plant indoors.

The hormone induces ixora to produce blooms simultaneously and on demand, making the shrub a new, commercially competitive ornamental, notes extension floriculture specialist Benny Tjia. Star-shaped blooms appear six to eight weeks after treatment, making it ideal for shipping to northern markets.

A conservative prediction is that sales of ixora will increase from 100,000 to 1 million plants annually because of the hormone, Tjia says.

"Sixty percent of the ornamental flowers imported into Florida now come from Columbia," he adds. "That totals about \$750,000 worth of plants arriving each day. But instead of rolling over and playing dead, we're learning to cultivate plants that competitors can't."

## More seed pregermination under way

■ More and more landscapers are looking toward pregermination of their seed before planting in order to get quicker germination in inclement weather, repair or renovate athletic fields, or to create a turf stand faster than normal seeding methods, says Nicholas R. Spardy, a sales representative with Northrup King Co. As proof of this trend, Spardy reviewed five (count 'em) pregermination methods and extolled the virtues of each. They are:

**The Candlestick Park Method**, used primarily to repair divots, involves mixing 150 pounds of Turface, 100 pounds of sand and 50 pounds of seed. Keep it in a moist state for up to seven days, layer it in, water it well and mound it.

**The Kansas City Method** involves soaking the seed in water that is changed every 12 hours. Do this until radical emergence can be seen.

**The Northrup King Method** has you put seeds in a burlap sack, soak them for 12 hours and then dry them for 12 hours at room temperature. Continue this cycle for seven days.

**The Milwaukee Brewers Method**, for drought repair, uses two ounces of Aqua Gro to each 55 gallons of water. Soak seeds in this solution, which must be changed every four hours. On the third day spread the seed with Milorganite 6-2-0.

**Cal-Poly Method** uses an aquarium pump to provide additional oxygen to water, which is changed every 12 hours.

Though all demonstrated a certain level of success, Spardy says, "Changing the water supply or somehow giving the seed a constant oxygen supply seems to be the key to success." That's because changing the water removes seed exudate, he says.

Another avenue being researched, dubbed the **Northrup King Modified Method**, involves placing the seed in 77°F water, which has cut the time of radical germination in half.

## LM Editorial Staff



Jerry Roche



Will Perry



Jeff Sobul

## EDITORIAL STAFF

**Jerry Roche**, Editor

**Will Perry**, Managing Editor

**Jeff Sobul**, Associate Editor

Office: 7500 Old Oak Blvd.

Cleveland, OH 44130

(216) 243-8100

## MARKETING STAFF

**Dick Gore**, Publisher

Office: 455 E. Paces Ferry Rd.

Suite 324

Atlanta, GA 30305

(404) 233-1817

**Jon Miducki**, National Sales Manager

**Marsha Dover**, Midwest Sales Manager

**Gloria Cosby**, Eastern Sales Manager

**Bob Earley**, Group Vice President

Office: 7500 Old Oak Blvd.

Cleveland, OH 44130

(216) 243-8100

**Robert Mierow**, W. Coast Representative

Office: 1515 NW 51st Street

Seattle, WA 98107

(206) 783-0549

**Tom Greney**, Senior Vice-President

Office: 111 East Wacker Drive

Chicago, IL 60601

(312) 938-2344

## SUPPORT STAFF

**Carol Peterson**, Production Mgr.

**Marilyn MacDonald**, Prod. Supervisor

**Deb Georges**, Graphic Design

**Becky Gothner**, Circulation Super.

**Bonnie DeFoe**, Directory Coordinator

**Gail Kessler**, Reader Service Manager

Office: 120 West Second St.

Duluth, MN 55802

(218) 723-9200

**David Komitau**, Graphics Coordinator

**Ted Matthews**, Promotion Director

Office: 7500 Old Oak Blvd.

Cleveland, OH 44130

(216) 243-8100

## EDGELL COMMUNICATIONS

Robert L. Edgell, Chairman; Richard Moeller, President; Lars Fladmark, Executive Vice President; Arland Hirman, Vice President/Treasurer; Thomas Greney, Senior Vice President; Ezra Pin-cus, Senior Vice President; Joe Bilderbach, Vice President; James Gherna, Vice President; George Glenn, Vice President; Harry Ramaley, Vice President.

# Think Of Us As Turf Insurance.



**To insure the health of next year's turf, Fall fertilization with Par Ex® is your best policy.**

Fall is your root feeding season. The only time of year when the foundation of your turf can be expanded and strengthened with less competition from leaves for available carbohydrates.

**IBDU: the only nitrogen source that doesn't rely on bacterial action or temperature for release.**

It is activated only through moisture (hydrolysis) to slowly release nitrogen all through the Fall and early Winter. Right up to the time the ground freezes, extending the greening of your turf much later than conventional slow-release fertilizers can. While it

works to build a strong and healthy root and rhizome system in preparation for next year's Summer stresses.

**Yes. You can buy a cheaper fertilizer this Fall.**

But don't expect it to perform when your turf cools down below 55° and microbial activity stops. Then, only Par Ex can really get to the root of the matter. And anything that doesn't is no bargain.

So call your Par Ex representative today and find out exactly how affordable Par Ex is.

We guarantee you'll rest a lot more comfortably all year round.





GOLF

## 'Exciting time to grow grass,' super says



Danny Quast answering a question at Jacobsen's College Seminar.

"It's an exciting time to grow grass, and a great time to get into this business," said Danny Quast, superintendent at the Milwaukee Country Club. He was speaking to 38 top graduating turf students at the annual College Student Seminar sponsored by Jacobsen Division of Textron this summer.

"You've got the best times ahead of you," Quast said. "The knowledge and tools are so much better today, it makes the job more enjoyable. Turf equipment and chemicals are better today than they've ever been in my career."

Quast discussed management of people as well as turf, and gave the students a few pointers for success. "If you're dedicated and have a professional attitude toward the job, you'll go far," he said.

Quast has donated his time and expertise for the past 13 years to participate in the 21-year-old seminar.

### PESTICIDES

## Anti-pesticide law is overturned, thanks to Wisconsin organization

A Wisconsin judge has overturned a Town of Casey ordinance that prevented the use of pesticides on private property.

Washburn County Circuit Court Judge Dennis C. Bailey said "...This court does find and conclude that the area of regulation and use of pesticides and herbicides [by local political subdivisions] has been preempted by federal law." Judge Bailey further concluded that the ordinance, which was drafted by the Office of the Wisconsin Public Intervenor, has also been pre-empted by state law.

The suit was brought by Casey land owner Ralph Mortier and supported by the Forestry/Rights-of-Way/Turf Coalition. The coalition reports that the court battle was a costly victory, but one that would have been even more expensive to lose.

Executive Director Russell R. Weisensel is asking for \$25 contributions from individual members and \$50 contributions from county members to defray its court costs. The address is 1400 East Washington Avenue, Suite 185, Madison, WI 53703-3041.

### ORGANIZATIONS

## CLCA members let fingers do walking

This summer, members of the California Landscape Contractors Association will again get the opportunity to participate in the CLCA's Yellow Pages Program. This program coordinates the purchase of line listings in telephone directories throughout the state. Here's how it works:

The CLCA sent a certified mailing to its members in June that asked them to choose space under one of three captions—"installation,"

"maintenance" or "installation/maintenance"—in the landscape contractor's section of 104 utility directories. Each \$60 listing includes the company name, address, and telephone number that will appear beneath the CLCA logo and the phrase "Sign of the Accepted Professionals."

Last year the association's support for the program amounted to \$20,000—\$66 to contractors for each listing purchased.

**Does  
Your Power  
Mulcher Go  
the Distance?**



Circle No. 138 on Reader Inquiry Card