

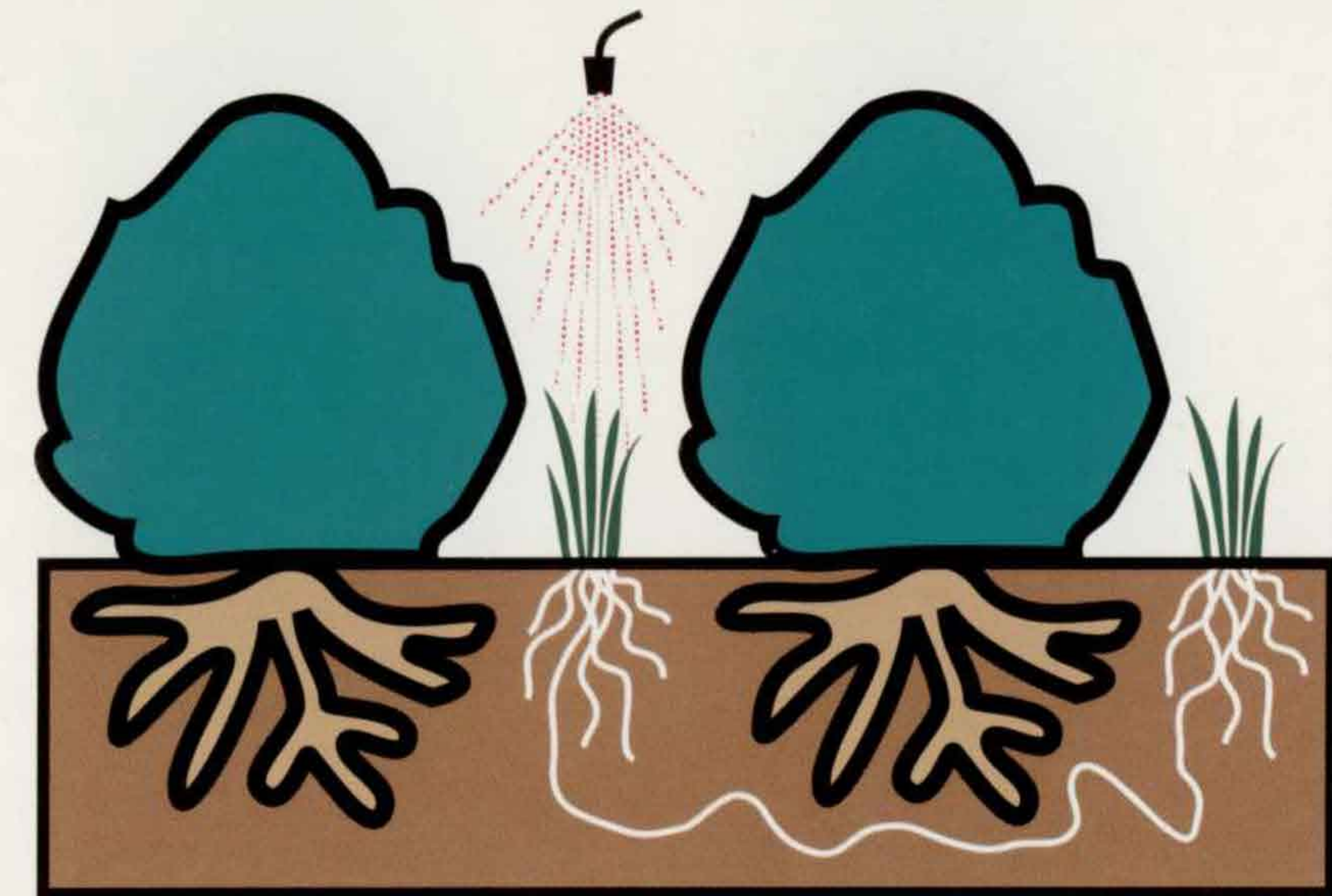
Take-Away™

*Selective, Systemic
Control of Grassy Weeds
in Ornamental Beds*



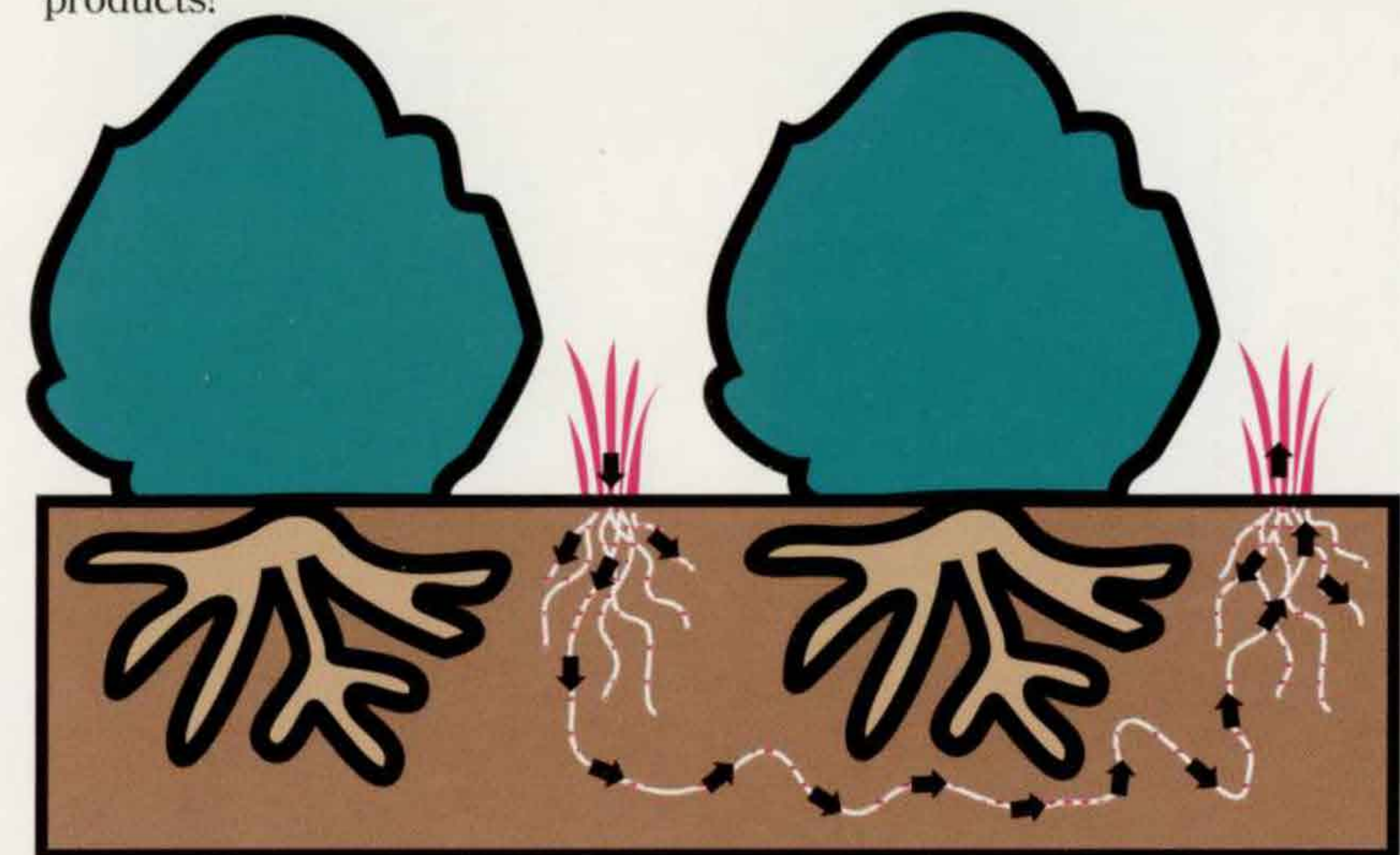
*Take out unsightly
grassy weeds with
LESCO Take-Away™
Postemergence
Herbicide!*

Selective



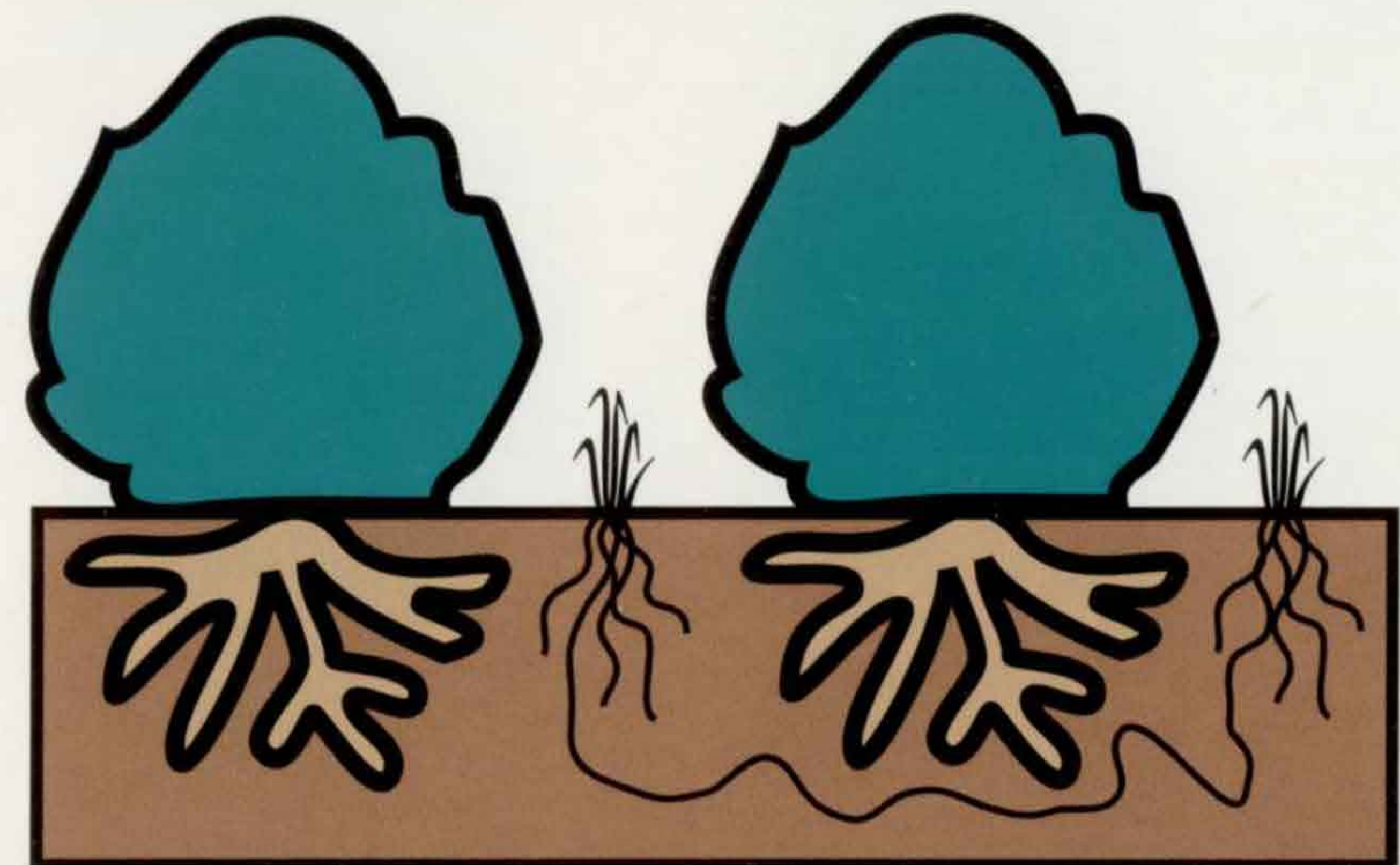
LESCO Take-Away controls over 30 problem annual and perennial grassy weeds. It is labeled for over-the-top application on over 300 species of ornamental plants — that's three times as many ornamentals as competitive products!

Systemic



Take-Away moves quickly from treated foliage to all growing points and destroys the entire grassy weed plant— shoots, roots, rhizomes and stolons. Take-Away is rainfast one hour after application.

Fast Acting



Growth of treated grass virtually ceases within 48 hours after application. Grass will show symptoms of loss of vigor, yellowing or reddening. Death of grass usually occurs within 1-3 weeks, depending on species and environmental conditions.

To Order, contact
your LESCO sales
representative or call
(800)321-5325.

LESCO

ESTABLISHED 1962

20005 Lake Road
Rocky River, Ohio 44116

Fertilizers, Seed, Control
Products, Equipment, Parts

Take away the competition!

Give ornamentals a fighting chance! Grasses compete with ornamentals for moisture, light and nutrients and can also harbor insects and disease-causing organisms. Take-Away removes this threat without injuring desirable plants.

Take-Away controls over 30 annual and perennial grassy weeds including tough-to-control perennial grasses like bermudagrass, torpedograss, quackgrass, johnsongrass, kikuyagrass, guineagrass.

Cut costs!

Take-Away reduces the need for expensive handweeding. It requires only an over-the-top spray application for quick results.

Apply LESCO Take-Away to actively growing grasses before they reach the maximum size and before tillering and/or seedhead formation. Always use a wetting agent like LESCO Spreader Sticker for better adhesion and improved performance. Rainfall or irrigation occurring one hour or more after application will not affect performance.

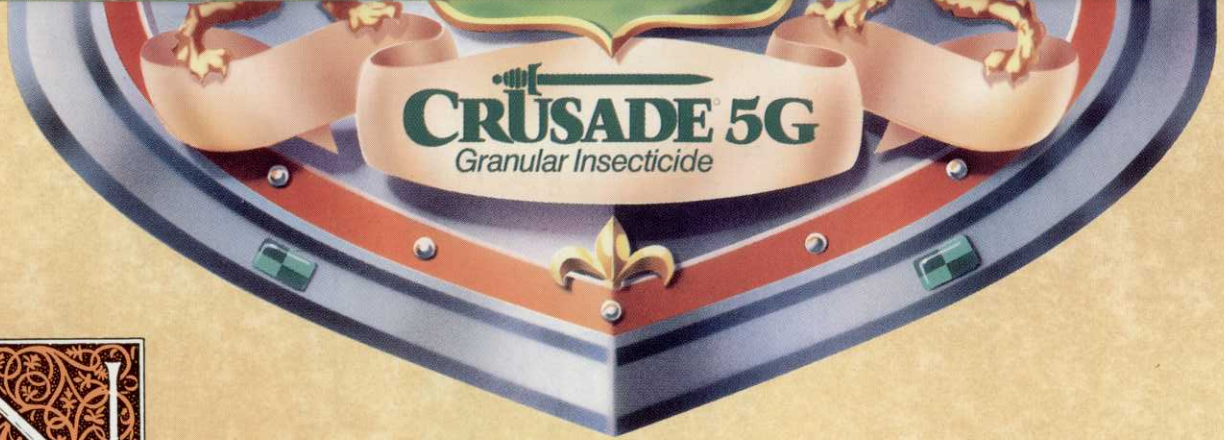
Refer to label for specific application rate information. Always read and follow label directions when applying any chemical product.



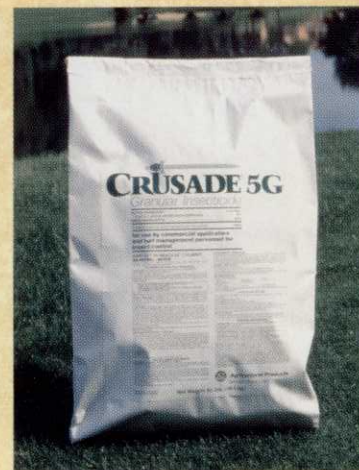


Golf Course Superintendents
New CRUSADE Insecticide
Protects All Your Turf





ow golf course superintendents have a protective shield against economically-draining pests – new CRUSADE® 5G granular insecticide. ♣ Extensively tested by university researchers and golf course superintendents, CRUSADE insecticide consistently delivers superior efficacy. Against a broad spectrum of turf insects, including white grubs, cutworms, mole crickets, sod webworms, and chinch bugs. ♣ CRUSADE is nonphytotoxic, and can be easily applied to both warm and cool season grasses on all areas of the golf course. From tee to green. And its performance is not affected by microbial degradation. ♣ CRUSADE 5G insecticide. Effective, flexible, gentle...on all your turf. For golf course superintendents, it's the only crusade. For turf pests, it's the last crusade. ♣ For more information contact your authorized distributor for CRUSADE, or call ICI Product Information at 1-800-759-2500.



Professional Products
Wilmington, Delaware 19897

CRUSADE® 5G
Granular Insecticide

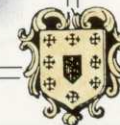
Offered by **LESCO** Contact your sales representative or call 1-800-321-5325



Apply turf chemicals sparingly and according to label directions.

CRUSADE® is a trademark of an ICI Group Company.

A business unit of ICI Americas Inc. 05-0517-012





Officers

- President** **Ray Hansen**
Del Aire CC
4645 White Cedar Lane
Delray Beach, FL 33445
(407) 495-0536
- Vice President** **Thomas Benefield, CGCS**
BallenIsles CC of JDM
10600 Ave of PGA
Palm Beach Gardens, FL 33418
(407) 622-0177
- Secy/Treasurer** **Mark Jarrell, CGCS**
Palm Beach National GC
7500 St. Andrews Road
Lake Worth, FL 33467
(407) 965-0046
- Past President** **Joel Jackson, CGCS**
Address FGCSA business to:
6780 Tamarind Circle
Orlando, FL 32819
(407) 363-4514

Directors

- Ridge** **Buck Buckner**
Orange Tree Golf Club
(407) 352-0330
- Everglades** **Lou Conzelmann, CGCS**
Fiddlesticks
(813)768-2332
- West Coast** **Frank Cook**
Bardmoor Country Club
(813) 392-1234
- Palm Beach** **Paul Crawford**
Palm Beach Country Club
(407) 845-2395
- Big Bend** **Robert Giehls**
Killearn G&CC
(904) 893-2412
- South Florida** **Bill Jeffrey, CGCS**
Indian Creek Country Club
(305) 866-7224
- Sun Coast** **Larry Livingston, CGCS**
Gator Creek Golf Club
(813) 922-0833
- Central Florida** **Joe Ondo, CGCS**
Winter Pines Golf Club
(407) 671-1651
- Treasure Coast** **Scott Bell**
Bent Pine Golf Club
(407) 567-9422
- North Florida** **Eddie Snipes, CGCS**
Oak Bridge Club at Sawgrass
(904) 285-5552

Staff

- Secretary** **Marie Roberts**
1760 NW Pine Lake Dr
Stuart, FL 34994
Phone: Days (407) 692-9349

CONTENTS

MARCH/APRIL 1991



NEWS ROUNDUP GOLF COUNCIL GETS A MOUTHPIECE 8
Florida's golf course superintendents applaud the selection of former Lieutenant Gov. Bobby Brantley as the first executive director of the Florida Golf Council.

COVER STORY WELCOME TO AUDUBON HEAVEN 16
At the Hammock Dunes Links Course in Palm Coast, man and his golf course are cohabitating with the environment very well, thanks to a superintendent who cares about such things.

FGCSA SPOTLIGHT KEVIN DOWNING: DISTINGUISHED SERVANT 26
In a war for water, golf will come in second, says Kevin Downing, winner of the 1990 FGCSA Distinguished Service Award.

HANDS ON TAKE A BYTE OUT OF COSTS 33
A computer allows a superintendent to control water and chemical applications and gives him more time to spend on the course.

TECH REPORT KNO₃: HELP FOR BENTGRASS GREENS 36
Potassium nitrate is a unique source of two major plant nutrients and, when applied as a foliar spray, is safer to use in areas particularly sensitive to groundwater contamination.

MARK MY WORDS FIRE ANTS' REAL STING NOT YET FELT 44
How much more will a round of golf cost to satisfy one more regulation fueled by our society's quest for a no-fault, risk-free environment?

GREEN PAGES GOVERNMENT, GOLF AND ENVIRONMENT 46
Two pages of facts, information and opinions on topics that affect the way superintendents must do their jobs.

GREEN SIDE UP IS SOMEONE ELSE FIGHTING YOUR BATTLES? 48
A few dedicated superintendents have represented the interests of all superintendents and golf course operators before many regulatory agencies. Have you done your share?

The Florida Green

Official Voice of the Florida Golf Course Superintendents Association

Published six times a year : On the first of February, April, June, August, October and December

editor/publisher emeritus Dan Jones, CGCS
Banyan GC
West Palm Beach

editor Joel D. Jackson, CGCS
Isleworth CC, Windermere
Address Florida Green business to:
6780 Tamarind Circle, Orlando, FL 32819
(407) 363-4514

publications chairman/assistant editor Tom Benefield, CGCS
Ballenises CC of JDM
10600 Avenue of PGA
Palm Beach Gardens, FL 33418
(407)622-0177

Janlark Communications

Janlark Communications, Inc., publishes The Florida Green on behalf of the Florida Golf Course Superintendents Association, which sets all policies.

publisher Larry Kieffer
copy editor Janetta Kieffer
contributing editor Kit Bradshaw
architecture editor Brad Klein
research editor Darcy Meeker

Resources

photography Brian Everhart
Tradewinds PhotoGraphics
536 Ave. A, NE
Winter Haven, FL 33880
(813) 293-2554

design and graphics earthbase, inc.
4630 S. Kirkman
Orlando, FL 32811
(407) 872-1880

color separations Dimension, Inc.
1507 West Cass St.
Tampa, FL 33606
(813) 251-0244

production film Typesetting Today/Printcrafters, Inc.
658 Douglas Ave., Suite 1114
Altamonte Springs, FL 32714
(407) 788-8020

printer Rinaldi Printing Co.
4514 Adamo Drive
Tampa, FL 33605
(813) 247-3921

COPYRIGHT NOTICE: Copyright 1991, Janlark Communications, Inc. All rights reserved. May not be reproduced in whole or in part without written permission of the publisher. **EXCEPTION:** Official publications of all golf course superintendent associations affiliated with the Golf Course Superintendents Association of America are welcome to use any material contained herein provided they give credit and copyright notice.

EXTRA COPIES: Copies of this issue and some back issues are available from Janlark Communications at \$5 each plus shipping. Supplies are limited.

SUBSCRIPTIONS: If you would like to receive a copy of each issue, please contact the FGCSA office for price and policies.

ADVERTISING: For rates and information, contact Janlark Communications, Inc. May/June issue closes April 1; July/August closes June 1.

EDITORIAL: All inquiries should be directed to the editor, Joel Jackson, CGCS. Unsolicited manuscripts and photographs cannot be returned.

JANLARK
COMMUNICATIONS, INC.

1206 Kimberle Court, Auburndale, FL 33823
813-967-1385 Fax 813-965-1734

Advertiser Index

Alfax	42	Liquid Ag	13
Almar Chemical	35	MDF Fountains	41
AmerAquatic	32	Nutri Turf	20
Ametek	21	Par Ex	6
Aquatrols	27	Pike Creek	31
Atlantic FEC	12	Rhone Poulenc	9,19
Central Florida Turf	35	South Florida Grassing	41
Chemical Containers	42	Southern Concrete	45
Delray Stake & Shavings	43	Spread Rite	45
Douglas Products	34	Standard Sand & Silica	32
Duda Sod	18	Sunniland	37
Florida Silica Sand	35	Sustane	18
Flowtronex	25	Terracare	Mailing Label
Golf Ventures	23	TMI Turf	15
Haverland Blackrock	10	Tom Burrows	45
Hoehst-Roussel	Inside back cover	Valent	11
ICI Crusade	2-3	Wesco Turf	38
Jahna Industries	14	Woodbury	29
Lake Doctors	38	Zaun	43
Lantana Peat	40		
Lesco	Covers		

Welcome!

The following companies are advertising in *The Florida Green* for the first time:

Alfax	42	MDF Fountains	41
ICI Crusade	2-3	TMI Turf	15

Coming in future issues

COVER STORIES

Weston Hills in Fort Lauderdale, Lake Region Yacht & CC in Winter Haven, BallenIsles CC of JDM and a course in the Everglades are scheduled for the balance of 1991.

HANDS ON

Articles on aerifying, top dressing, conditioning, frost and freeze protection, pesticide application, overseeding, fertility, facility and staff management, integrated pest management and managing turf under water restrictions have been scheduled for this year and early next year.

ALSO...

In-depth interview with Robert Trent Jones, Jr.; four-page, full-color summary of bermudagrass decline from IFAS; continued monitoring of regulatory agencies.

READ

...the fine print.

Net Weight 61 $\frac{7}{8}$ lbs

CAUTION: PLEASE KEEP OUT OF THE REACH OF CHILDREN. EYE CONTACT WITH CONTENTS MAY CAUSE IRRITATION. FLUSH EYES WITH WATER AS SOON AS POSSIBLE.

ProTurf Fairway Fertilizer 32-3-10 643-8408

Guaranteed Analysis

Total nitrogen (N)	32%
0.8% ammoniacal nitrogen	
24.5% urea, methylene urea nitrogen	
6.7% water insoluble nitrogen	
Available phosphoric acid (P ₂ O ₅)	3%

Scott's ProTurf

GUARANTEED ANALYSIS

Total Nitrogen (N)	19%
5.5% Water Insoluble Nitrogen	
3.5% Urea Nitrogen	
Available Phosphoric Acid (P ₂ O ₅)	5%
Soluble Potash (K ₂ O)	9%
Magnesium (Mg)	10%
Sulfur (S)	6.0%
Iron (Fe)	10%
Manganese (Mn)	0.5%

Nutrient Sources: Urea, Methylene Ureas, Ammonium Phosphate, Ammonium Sulfate, Ammoniated Superphosphate, Sulfate of Potash, Oxides, Ferrous Sulfate, Sulfates.
Potential Acidity Equivalent 1300 lbs. Calcium Carbonate per Ton

Lebanon Country Club

GUARANTEED ANALYSIS

TOTAL NITROGEN (N)	24.0%
1.6% Ammoniacal Nitrogen	
11.6% Urea Nitrogen	
10.8% Water Insoluble Nitrogen	
AVAILABLE PHOSPHORIC ACID (P ₂ O ₅)	4.0%
SOLUBLE POTASH (K ₂ O)	12.0%
Magnesium (Mg)	0.7%
Sulfur (S)	5.0%
Iron (Fe)	0.4%

Derived from ammonium phosphate, isobutylidene diurea, urea, sulfate of potash, sulfate of potash-magnesia and iron sulfate. Potential Acidity 1000 lbs. Calcium Carbonate Equivalent per ton.
Manufactured by Vigoro Industries, Inc.
Fairview Heights, Illinois 62208.

Par Ex

Down in the analysis area on every fertilizer bag, you'll find the "fine print" that tells you what the big print doesn't. Read all of it. Carefully. But most importantly, look at the percentage of Water Insoluble Nitrogen.

Water Insoluble Nitrogen (WIN)... the key to superior turf.

The higher the WIN percentage, the longer your turf will remain green. And the less often you will have to fertilize. That's because WIN is the percentage of total Nitrogen that is truly slow release. Freeing small amounts of Nitrogen each time it's touched by water (Par Ex® with IBDU®) or activated by temperature or bacterial action (competitive products).

No competitor can deliver as much usable WIN as Par Ex.

Only Par Ex contains IBDU—a unique Water Insoluble Nitrogen source that is 100% available to your turf in a single growing season. Consider that urea formaldehyde products (bacteria and temperature released) contain about one third of their WIN in the form of plastic polymers. Its long-term Nitrogen

release is so slow, it's almost useless, and will most likely occur during the hottest periods, just when you don't want it.

For Sulfur Coated Urea (SCU), research has shown that by the time it is spread, about 50% is immediately soluble, effectively doubling your cost of controlled-release Nitrogen and cutting the benefit in half!

Be sure to read your bag.

If the percentage of Water Insoluble Nitrogen isn't listed, there isn't any slow-release Nitrogen. If it is listed, chances are it won't be as high as the WIN percentage in Par Ex. Even if it is, we guarantee you that 100% of what we list as WIN is available to your turf every growing season. That means for every six months of growing, you'll receive an additional 46-53% more usable WIN than our competitors can deliver.

So start building your WIN percentage today. Talk to your local Par Ex Representative or call 813/294-2567. And get all the WIN you've been reading about.



par ex
THE EX STANDS FOR EXCELLENCE



Ray Hansen

Florida Golf Council needs your support

In January, Tim Hiers and I attended an organizational meeting of the Florida Golf Council.

The Board of Directors announced the hiring of its new executive director, Bobby Brantley, who has spent the past 12 years in Florida state government: eight years in the Florida Legislature and the last four as lieutenant governor. This timely appointment of a person with his background will be of great benefit during this critical start-up period.

For those who are not familiar with this new organization, let me tell you how the council evolved and its mission. Industry leaders from all phases of golf organized last fall to face such issues as land use, taxation, water management and environmental protection which we are all concerned with but were not being properly addressed. The council is made up of all existing golf associations and industry leaders who wish to promote the best interest of this \$5.5 billion Florida industry. Its mission is to become a focal point, clearinghouse, communicator and advocate to assure

that we receive our fair share of the state's resources including land, water, economic and government support.

The Florida Golf Council Board of Trustees and Board of Governors is comprised of people in all phases of the golf industry in Florida. Brantley is operating with a small staff out of Palm Beach County but as funding is developed, he will locate in Tallahassee where he will spend his time on state government issues.

This new organization is important to all of us if we are ever going to be able to tell our side on environmental issues in Tallahassee. For this council to survive, all golf courses and golf-related business in Florida will be asked to pay annual dues. Golf courses will be divided into three categories depending on the size of their maintenance budgets, which I feel is a fair approach. Developers will be asked to pay a fee above ours and businesses will be able to support this association also.

I urge all readers to support this new organization by joining so we may finally have a voice in Tallahassee.

Its mission is to become a focal point, clearinghouse, communicator and advocate to assure that we receive our fair share of the state's resources including land, water, economic and government support.

TURF NEWS

ROUNDUP

Florida Golf Council finds a mouthpiece government will hear

If the Florida Golf Council is to become the voice of the state's golf industry, it must have a powerful mouthpiece.

Many golf course superintendents are hoping that the selection of Bobby Brantley, Florida's former lieutenant governor under Bob Martinez, as the council's first executive director will bring credibility and political savvy to the golf trade organization.

Certainly Brantley comes with some impressive credentials.

As lieutenant governor, Brantley also served as Secretary of Commerce and was one of the cheerleaders for the council in its infancy.

He also has served in the state House of Representatives, giving him a roadmap to the halls of the state legislature and the ear of the lawmakers in Tallahassee.

The new executive director knows the problems facing golf courses. Brantley's father-in-law, Frank Moore, developed the Seminole Golf Club in Longwood. In 1972, Brantley became manager of the course, a position he held for 16 years.

Brantley has hit the ground running, meeting with representatives of organizations within golf that call Florida home. He says the success of the Florida Golf Council will be directly related to the cooperation among the different organizations in the industry.

For FGCSA President Ray Hansen, Brantley's selection is none too soon.

"The sooner our side is heard, the better," says Hansen. "With all the chemical restrictions, the water restrictions and the rules we have to contend with, we need to tell our side of the story. If the council has impact with just one issue — effluent usage — it will help. After all, golf courses are asked to take water that is polluted by industry and filter it back into the aquifer, and we aren't the polluters. Yet we have to pay the price for whoever polluted this water.

"I'm glad they picked someone who knows his way around Tallahassee instead of a novice. This will speed up the process," Hansen adds.

Brantley knows there's a difficult job ahead.

"I think that the biggest problem is one of communication," Brantley says. "The industry really doesn't know what is happening across the state that affects its business. For example, the St. John's Water Management District is considering rules on water consumptive use permits, and a section of these rules apply to golf courses. Many people in the industry don't know that their way of doing business will be changed because of water... and every district is looking at new rules on the use of water.

"The council needs to be a clearinghouse, to get this information out, and to assure we get the best spokespeople from different segments of the industry to make presentations to the regulators. The council doesn't need to re-invent the wheel; the experts are already there. But it needs to assure that the studies and the facts are articulated so that our voice can be heard."

Hansen says the "golf course superintendents are 100 percent behind the Council. We were one of the first to give the Council seed money."

"The golf course superintendents are probably the biggest cheerleaders we have," Brantley says. "They have been the most vocal in expressing the views of the industry over some of this rule-making because they are the ones getting hit by the regulations.

"You are talking about the superintendents' livelihoods when you talk about these rules.

"I've been impressed by their association and by how well they present the issues. Basically, the golf course superintendents are saying that they want to be recognized by the regulators. They don't disagree with *what* the regulators are trying to accomplish, but with *how* they are trying to accomplish it. There is another side to the story."



BRANTLEY/ARCHIVES

Bobby Brantley in his 1987 inaugural portrait as Florida's Lieutenant Governor.

ALSO

USGA Green Section, Society of Architects and Golf Course Owners announce major award winners 11

Florida continues to lead the nation in new golf course openings 12

To Get Better Pythium Protection You'd Have To Take In The Turf At Night.



When Pythium conditions are right, you can either take in the turf or take out the best Pythium control money can buy: CHIPCO® ALIETTE® brand fungicide. CHIPCO® ALIETTE® brand is unlike any other Pythium-prevention fungicide. Its true systemic action spreads protection throughout every blade of turfgrass, including the roots. Protection that lasts up to 21 days from a single application.

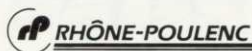
Plus, the unique chemistry of CHIPCO® ALIETTE® brand actually stimulates turf's natural ability to fight off infection.



So you get two-way protection that can't be beat. Now add to that the fact that a foliar application of CHIPCO® ALIETTE® brand prevents

Phytophthora and Pythium on a wide variety of ornamental and landscape plantings, and you've also got the most versatile fungicide on the market today. So when conditions are right for Pythium, don't roll up the turf, lay down CHIPCO® ALIETTE® brand fungicide.

Chipco® Aliette®
Brand Fungicide



TURF NEWS ROUNDUP

Brantley notes that some golf course superintendents and the turfgrass association members recently met with the St. John's River Management District representatives, and discussed one part of the proposed rules. As a result, changes were made.

"I'm not insinuating that the Council did this directly," Brantley says, "but through this meeting, the district people and the industry people were able to talk things over. The district representatives appreciated this chance to meet."

As far as Glenn Oberlander is concerned, there needs to be much more conservation — and clarification — concerning regulations.

"Right now the superintendent or person involved with the turf industry doesn't know what is happening," says Oberlander, the golf course superintendent at the Plantation Resort in Crystal River.

"Something tells me everyone in the industry is confused because we are having the same seminars all year long and when

If we can help head off some major expenses that would have occurred had a rule gone into effect, then the cost of membership in the Council is well worth it

everyone leaves the meetings, there is still a big question mark.

"Some problems with SARA Title III could have been avoided if they had come to us and talked to us about the effect of the regulations.

"And it's the same way dealing with the water restrictions... they don't make sense. They tell us *when* to water, but not *how much* water to use. If we had had someone talking to the government and telling our side of the water issue, this could be different."

Oberlander adds, "What we need is an opportunity to tell the public and the regulators the good things that golf courses can do."

Brantley continues to emphasize cooperation, but the council also needs money.

"We are basing the membership dues on the courses' annual maintenance budgets," says Brantley, "and I know that for some golf courses, the cost seems high. We are looking at \$500 a year for smaller clubs, with the dues graduating upwards as you get into the larger clubs with higher maintenance budgets.

"But if the Council can monitor what is happening in Tallahassee and get the industry talking to the regulators, then this is a lot less costly than each individual club hiring someone to do this. And, if we can help head off some major expenses that would have occurred had a rule gone into effect, then the cost of membership in the Council is well worth it to the courses in the state."
-Kit Bradshaw

CUSTOM CONCRETE BORDERS

Border Cart Paths... Putting Greens... Flower Beds!



COLORS & CUSTOMS

Call for prices and specifications



Consulting services for paving and drainage problems!

Contact Dell Haverland

Haverland Blackrock Corp.

Boynton Beach, Fla.

Office: 407/369-7994

Fax: 407/369-0535

Excavating • Cart Paths • Drainage

GOLF COURSE RENOVATION