



The Florida Green

November/December 1991

*Number 3,
Wilderness Country Club,
Naples*

Meeting the nutrient needs of turf and ornamentals.

LESCO has a fertilizer to meet your regional and cultural requirements, whether your turfgrass responsibilities include maintaining a golf course, athletic fields or residential/commercial landscapes.

LESCO fertilizers feature sulfur-coated urea as a nitrogen source because years of research and performance have proven it to be the most efficient and economical form of controlled-release nitrogen.

We also offer sulfur-coated diammonium phosphate as a phosphorus source and sulfur-coated



The LESCO facility in Martins Ferry, Ohio is the largest sulfur-coating plant in the world.



sulfate of potash as a source for potassium to increase efficiency and safety of these nutrient sources.

Leading the industry in sulfur-coating technology and production.

LESCO was the first commercial producer of sulfur-coated urea in the United States and to this day is one of only a few producers in the world.

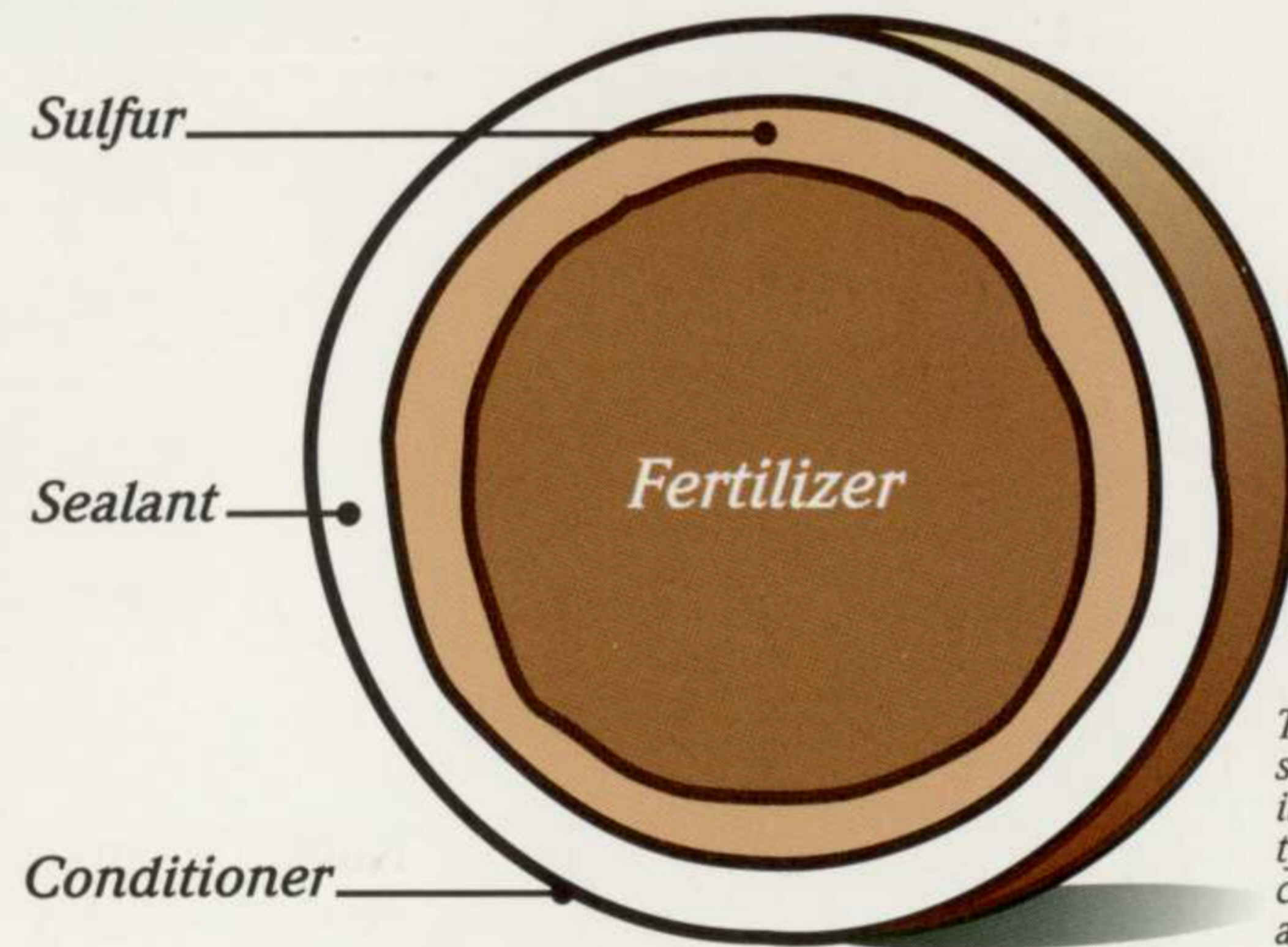
Today we produce sulfur-coated fertilizers at our state-of-the-art facility in Martins

Ferry, Ohio. The plant is fully automated for greater efficiencies in manufacturing and for a consistently uniform,

quality product. This enables us to offer our fertilizers at competitive prices.

The LESCO facility at Martins Ferry is the largest sulfur-coating plant in the world. Its products are shipped to fertilizer users worldwide.

The sulfur-coating technology was developed as a means of slowly releasing plant nutrients from water soluble sources over an extended period of time. The coating process involves spraying fertilizer particles with molten sulfur and then applying a



This cross section illustrates the typical composition of a sulfur-coated fertilizer granule.

coat of sealant. As the particles are cooled, a conditioning agent is added to keep the particles free flowing. The last step is a screening process that ensures uniform particle size.

The slow-release characteristic of a sulfur-coated fertilizer is determined by the thickness of the coating. Nutrients are released from sulfur-coated fertilizer by diffusion through pores in the coating and by natural breakdown of the coating.



Offering the most sulfur-coated fertilizer options in the industry.

By sulfur-coating different sized particles, LESCO has developed three distinct granular fertilizer product lines: Elite, Mini and Standard in a variety of analyses. Whether the turfgrass is a low-cut golf course putting green or a high-cut utility area, LESCO has a fertilizer that's right for the job.

LESCO formulates products for regional and seasonal needs and recommends fertilizers based on agronomic and cultural requirements.

LESCO Landscape & Ornamental Fertilizers.

LESCO Landscape & Ornamental Fertilizers are designed with a thicker sulfur coating for a much longer feeding duration than turf fertilizers. They feature 100 percent sulfur-coated nitrogen, phosphorus and potassium to provide superior nutrient availability and safety during all stages of ornamental plant production and maintenance. The steady, gradual nutrient release insures efficient uptake by plant roots.

LESCO Custom-Blended Fertilizers

If our wide selection of standard fertilizers doesn't meet your needs, LESCO can custom-blend a fertilizer to meet your specifications.

We can design fertilizers in a wide range of high analyses and high performance blends. Nutrient sources and release rates can be custom selected. Micronutrient packages can also be custom designed.

LESCO can also custom formulate and package private label fertilizer blends.

Delivering the benefits of sulfur-coated fertilizer.

Sulfur-coated fertilizers have several advantages over conventional water-soluble fertilizers. They offer slower and more controlled release of nutrients over a longer period of time for a more uniform growth response and a lower burn potential. There is also significantly reduced risk of volatilization, run-off or leaching from the root zone.

This slow-release feature enables you to make fewer applications at a higher rate, saving time and labor. Also, a more consistent growth rate reduces mowing requirements and the need to collect unsightly clippings.

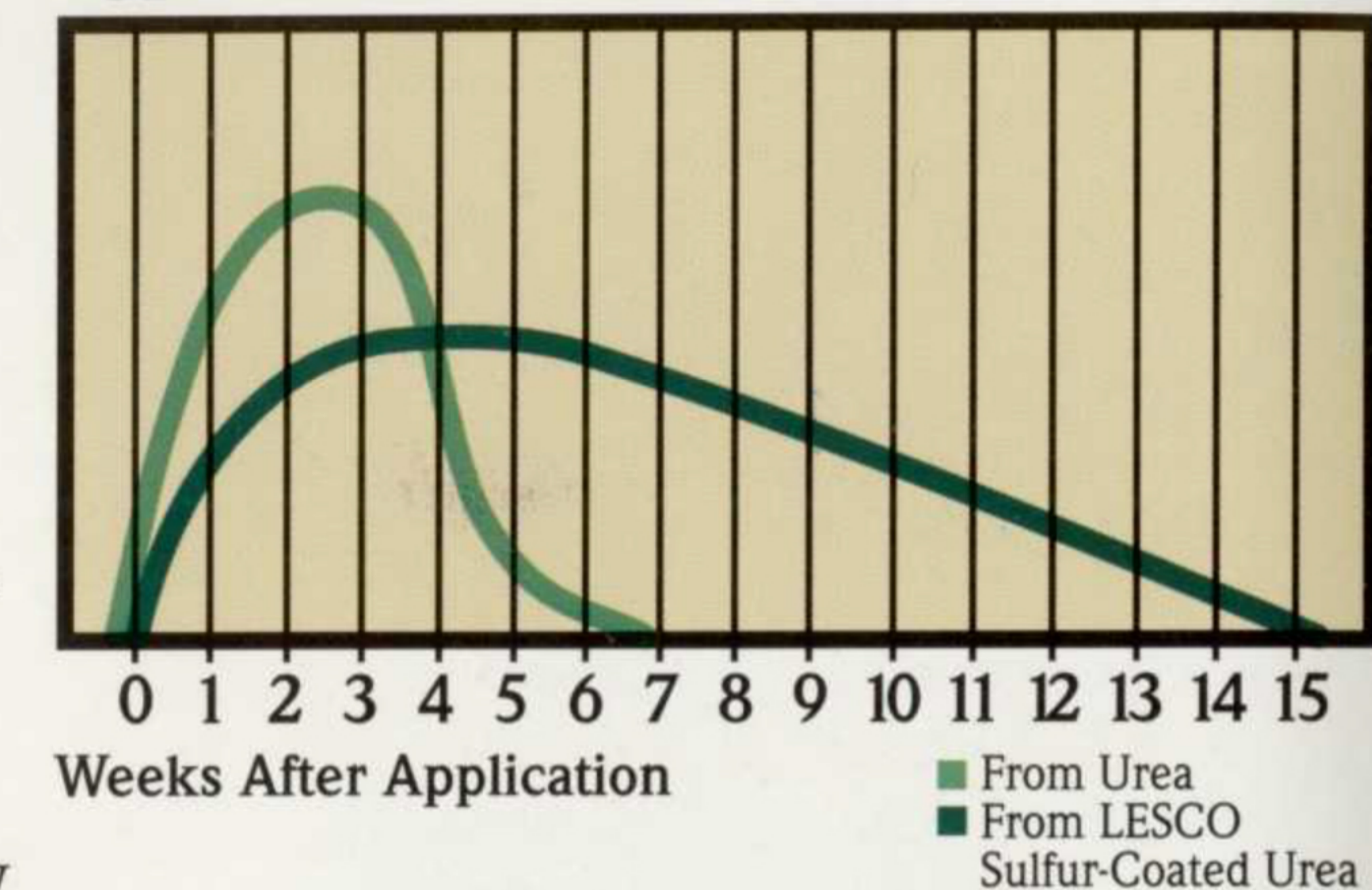
LESCO sulfur-coated fertilizers are produced in a uniform particle size that minimizes segregation in blends.

Sulfur-coated fertilizers also offer benefits over other slow-

release nutrient sources. For example, there is no significant delay in nutrient release following application so you begin to see results more quickly.

Nutrient release from sulfur-coated fertilizers is not adversely affected by excessive rainfall, irrigation or soil pH. It is also not dependent upon warm soil temperatures or bacterial activity.

Typical Growth Response



Buying results: fertilizers that work.

You can count on LESCO sulfur-coated fertilizers to perform. And you can count on the experts at LESCO to help you with all of your turfgrass challenges. Our team of fertilizer and seed specialists, golf course specialists and lawn care specialists are accessible and ready to help.

You can also be sure of the availability of LESCO fertilizers. Our products are warehoused in over fifty locations across the U.S. to serve your needs.

Contact your LESCO sales representative or call toll free (800) 321-5325 for more information on fertilizers or any other LESCO product.



*Elite Turf Fertilizers
(with micronutrients)*



Mini Turf Fertilizers



Standard Turf Fertilizers

LESCO fertilizer granules are formulated with a variety of phosphorus and potassium sources and are also available with iron, manganese and other micronutrients.

LESCO Elite Turf Fertilizers

This is the smallest particle size available and is designed for the most demanding turf management programs with turf cut below one-half inch. LESCO Elite Fertilizers provide 11 times as many particles per given area as the standard LESCO products.

The Elite Fertilizers are especially well-suited for use on golf course greens and tees or fairways cut with light-weight mowers. Particle size and density virtually eliminate mower pickup.

LESCO Mini Turf Fertilizers

The Mini Turf Fertilizers are designed for more demanding turf management programs with turf cut above one-half inch. They provide three times as many particles per given area as the Standard LESCO products.

LESCO Standard Turf Fertilizers

Designed for most turf management programs with turf cut above one inch, LESCO Standard Turf Fertilizers are produced in a wide array of analyses.

For more information contact your LESCO Sales Representative or call toll free **(800) 321-5325**. In Cleveland, call (216) 333-9250.

LESCO, Inc.
20005 Lake Road
Rocky River, Ohio 44116

©1991, LESCO, Inc.

CYPRESS MULCH

Economical Bulk Loads
or
Convenient Bags

Wood Stakes
• SURVEYING
• CONSTRUCTION
• LANDSCAPING
• FARMING

DELRAY STAKE AND SHAVINGS INC.

9500 W. Atlantic Ave.
Delray Beach, Florida 33446
(407) 737-6458

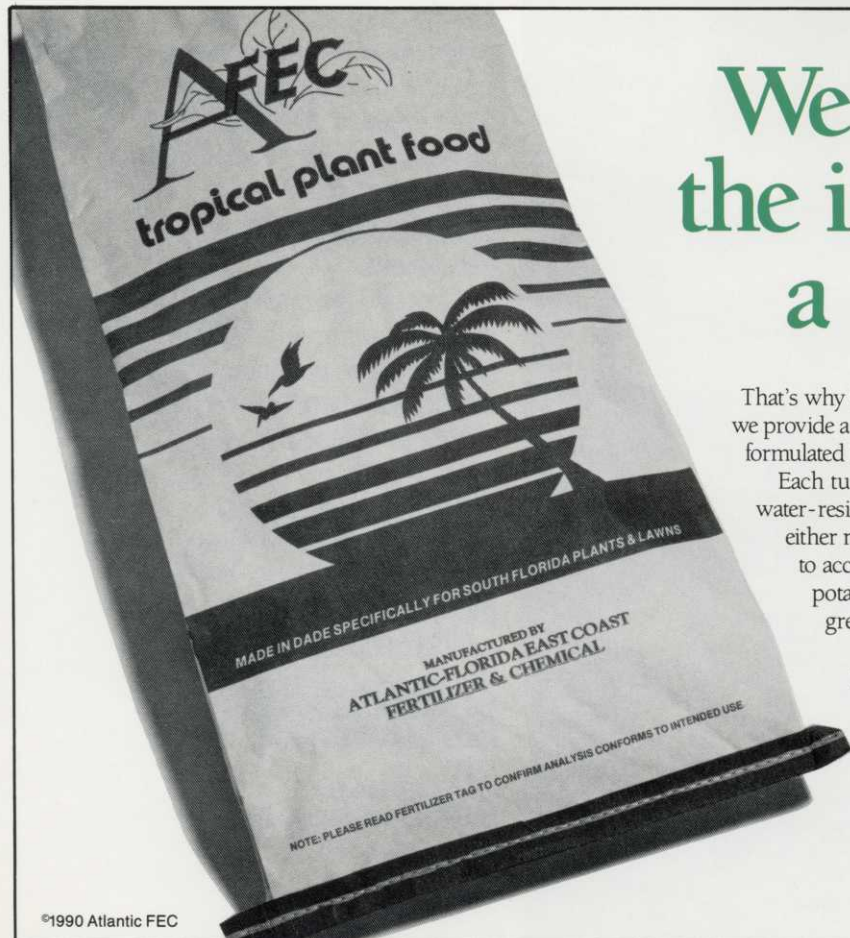
AmerAquatic®

TOTAL LAKE CAPABILITY
algae and aquatic weed control
fountains, installation & service
lake & littoral zone design
fish stocking & breeding
wetlands establishment
floating weed barriers
water quality testing
silt/turbidity control
lakescaping™
free surveys

*Serving golf courses and green spaces
from Florida to the Carolinas*

Your lake's best friend. SM

Florida Toll Free (800) 432-1349



We understand the importance of a good mix.

That's why it's important that you get to know Atlantic FEC. Because we provide a variety of specialty mixes and related products specifically formulated for the South Florida turfgrass industry.

Each turfgrass mix is delivered by Spyder equipped trucks in water-resistant paper or plastic bags. Bulk material is available in either normal size Killebrews or "small door" (24") Killebrews to accommodate your turf spreader. Drop trailers, sulfur coated potash, and new Micro Prill Greenskote, a quality putting green blend, also available.

Call us toll free at 1-800-432-3413 or visit us at 18375 S.W. 260th Street in Homestead to find out how you can benefit from quality mix from the Atlantic FEC turfgrass professionals.

Atlantic FEC
Better Mixes Since 1923.

The hottest twosome in golf.



That twosome is Gator turf-type perennial ryegrass and Cobra creeping bentgrass.

Gator is the elite, moderately dark green ryegrass that has exhibited superior heat and cold tolerance. It's a very erect, semi-dwarf, densely crowned variety, which is widely used for durable permanent turf in the Northern U.S. and for overseeding dormant Bermuda grass in the South.

Cobra has a semi-erect growth habit, is uniformly dark green and has shown unparalleled resistance to heat and other forms of environmental stress. It is highly recommended for greens, tees and fairways. Cobra was developed through the cooperative efforts of Rutgers University and International Seeds, Inc.

“Seed – the Gift of Life”®

 **INTERNATIONAL SEEDS, INC.**

P.O. Box 168 • Halsey, Oregon 97348 • Tel. (503) 369-2251 • Toll Free 1-800-445-2251 • TWX 910/240-5575 • FAX (503) 369-2640



Officers

President **Thomas Benefield, CGCS**
BallenIsles CC of JDM
10600 Ave of PGA
Palm Beach Gardens, FL 33418
(407) 622-0177

Vice President **Mark Jarrell, CGCS**
Palm Beach National GC
7500 St. Andrews Road
Lake Worth, FL 33467
(407) 965-0046

Secy/Treasurer **Paul Crawford**
Palm Beach Country Club
P.O. Box 997
Palm Beach, FL 33480
(407) 845-2395

Past President **Ray Hansen**
Del Aire CC
4645 White Cedar Lane
Delray Beach, FL 33445
(407) 495-0536

Directors

Big Bend **Buck Workman**
Valdosta CC
(912) 241-2003

Central Florida **Joe Ono, CGCS**
Winter Pines Golf Club
(407) 671-1651

Everglades **Buddy Carmouche, CGCS**
Hole-in-the-Wall GC
(813) 261-0598

North Florida **Brigid Braun, CGCS**
Matanzas Woods GC
(904) 446-6332

Palm Beach **John Gallagher**
Boca Woods CC
(407) 483-4855

Ridge **Alan Puckett**
Lake Region Y&CC
(813) 324-4678

Seven Rivers **Tim Sever**
Sugar Mill Woods Country Club
(904) 382-2100

South Florida **Dale Kuehner, CGCS**
Colony West Country Club
(305) 721-5980

Sun Coast **Talbot Denny**
El Conquistador Country Club
(813) 775-9709

Treasure Coast **Scott Bell**
Bent Pine Golf Club
(407) 567-9422

West Coast **Greg Plotner**
Tampa Palms G&CC
(813) 972-3375

Staff

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

CONTENTS



NOVEMBER/DECEMBER
1991

NEWS ROUNDUP FLORIDA GOLF SUMMIT REVISITED 8

The Florida Golf Council recently brought together people who want to protect the industry from the expensive whims and poor ideas of legislators and bureaucrats. The only trouble is they are fighting the war with few course owners on their side and strained financial resources.

SLOW PLAY – FAST PLAY WHAT MAKES THE DIFFERENCE 12

Golf course design and maintenance can affect whether a course can move players through at a good pace or bog them down causing fewer rounds played.

COVER STORY THE LURE OF THE WILDERNESS 16

Wilderness County Club was the second golf course built in Collier Country. Now in that county there are more golf courses being built than any place on earth. But we doubt you'll find one in Florida that's any prettier than the course developed by Paul Frank.

SPOTLIGHT BUD QUANDT HAS BEEN INVOLVED IN IMPROVING GOLF 22

Even though Bud has been instrumental in incorporating changes in the golf industry, he still has a yearning for an earlier simpler time.

HANDS ON NORTH FLORIDA TAKES COLD SNAPS SERIOUSLY 30

Continuing a serial feature on how and why golf turf is cared for, Carl Smith, superintendent at Lake City C.C. discusses how he and his colleagues keep turf healthy during the winter.

AFTERWORDS GOLF COURSE MANAGERS DO BETTER THAN OTHERS 36

Golfers have set such high standards for their golf courses that maintaining these standards is difficult, expensive and sometimes impossible to achieve. Yet golf course superintendents "bat" far better than superstars in other sports endeavors.

GREENWARD WETLANDS DEFINITIONS GET SOME REVISION 30

The feds have come up with a revised manual for identifying wetlands according to hydrology, vegetation and soil. Golf course developers and managers would be well-advised to learn the latest.

GREEN SIDE UP SOME SUPERINTENDENTS ARE UNFAIRLY JUDGED 32

It seems that even accomplished golfers can't understand the nature of the surface they're playing on. Editor Joel Jackson talks about nitpickers and tough critics.

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
 Walt Disney World
 Address Florida Green business to:
 6780 Tamarind Circle, Orlando, FL 32819
 (407) 351-3729
 (407) 363-4514 Fax
 (407) 827-4383 Work

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

publications chairman Mark Jarrell, CGCS
 Palm Beach National GC
 7500 St. Andrews Road
 Lake Worth, FL 33467
 (407) 363-4514

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
managing editor Philip Pettus
copy editor Janetta Kieffer
contributing editor Kit Bradshaw
architecture editor Brad Klein
research editor Martha Dobson

Resources

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

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

production film Bartow Printing Company
 495 East Summerlin St.
 Bartow, FL 33830
 (813) 533-4114

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.

SUBSCRIPTIONS: \$20 for six issues. Contact the FGCSA office.

ADVERTISING: For rates and information, contact Janlark Communications, Inc. November/December closes October 17.

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



P.O. Box 336, Auburndale, FL 33823
 813-967-1385 Fax 813-967-4553

Advertiser Index

A. Duda & Sons	13	Lantana Peat & Soil	29
Almar Chemical Co.	25	Lesco, Inc.	
AmerAquatic Inc.	2 Inside Front Cover	
Aquatic Systems Inc.	19 Back Cover	
Atlantic FEC		Liquid Ag Systems, Inc.	11
Fertilizer & Chemical	2	M&W Pump Corp.	29
Central Florida Turf	27	Nucrane Corp	
Chemical Containers, Inc.	27 Inside Back Cover	
Classic Greens Inc.	14	Nutri-Turf, Inc.	21
Delray Stake & Shaving	2	Par Aide Products Co.	19
Douglas Products	29	South Florida Grassing	11
E.R. Jahna Industries	21	Spread-Rite, Inc.	13
Environmental Waterway		Standard Sand & Silica	9
Management	13	Sunniland Turf Products	25
Florida Silica Sand	28	Terracare Products, Inc.	
Flowtronex International	15 Mailing Label	
Golf Ventures	7	The Lake Doctors	25
Haverland Blackrock Paving .	9	Tom Burrows	
International Seeds Inc.	3	Turfgrass Service	19
		Turf-Tec International	27
		Woodbury Chemical Co.	23
		Zaun Equipment Co.	27

Welcome!

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

Environmental Waterway		M&W Pump Corp.	29
Management	13		

TURFGRASS QUIZ

OMASCAROS



Problem:
 Poor turf,
 bad lies

Answer:
 Please see
 Page 22.

For many years we superintendents have recognized the need for a strong lobby to represent us in Tallahassee. With conception of the Florida Golf Council and through its executive director, former Lt. Gov. Bobby Brantley, we have seen this lobbying process become a reality. But yet there is

trouble in River City.

The Florida Golf Council was envisioned to bring together all of the different facets of our industry to form one voice. This could be the most politically power-

ful voice in Tallahassee.

We have probably the best man on the job that we could hope to ask for. If you wrote a job description for this position, you would be describing Mr. Brantley to a tee. The Florida Golf Council has almost all the key ingredients to be successful: it has the vision, the direction and the right people.

What it does not have is the members.

At this time a small segment of our industry that is financially carrying the overwhelming majority. It seems that private member-owned golf clubs feel they are immune to the regulatory climate and they don't need to support the council. This self-deceiving attitude will surely lead to problems that could

well be the death of not only these private clubs — but the whole golf industry.

It is sad to see the Council hard at work on issues such as taxes on club memberships and minimum spending for the benefit of all the clubs and only being supported by a few dedicated clubs and groups.

It is time for the fence-straddlers to get off their derrieres and get into the battle. Never before has the very existence of our industry been threatened as it is today. Yet we see constantly an attitude of nonchalance from the very people, club members, who are going to be affected the most.

The FGCSA is convinced that the creation of the Florida Golf Council is the most important event to happen for golf's future in the last 20 years. We also put our money where our mouth is and have contributed \$7,500 this year alone.

We are thoroughly confused about club managers, club presidents and other elected private club officials not doing their part. For you see it is the club members who have the most to lose. The increased cost from new taxes and regulations will be paid by the club members.

Club members have a vested interest to become involved — especially through their financial support.

We must have this representation and if everyone does their fair part we will be successful. Pick up the phone and call the council at 904-893-9755. Talk to Bobby Brantley. We think you will see the Florida Golf Council is deserving of your support.

Tom Benefield

Florida Golf Council deserves support



Tom Benefield, CGCSA
FGCSA President

We Supply It, So You Can Work It . . .



**FOR PRODUCT KNOWLEDGE,
THESE EXPERTS SERVICE YOUR AREA.**

David Miller	<i>Central Florida</i>
Jim Sartain	<i>West Coast</i>
Bob Schroeter	<i>North Florida</i>
David Cheesman	<i>S.E. Florida</i>
Shawn Zakany	<i>S.E. Florida</i>
Jim Wells	<i>Central Florida</i>
Tracie Rodwell	<i>S.W. Florida</i>
David Barnes	<i>Central Florida</i>
Mike Ayer	<i>West Coast</i>
Marty Griffin	<i>S.E. Florida</i>
Mike Miles	<i>West Coast</i>

QUALITY PRODUCTS FOR YOUR GOLF COURSE, ITS MAINTENANCE AND APPEARANCE.

FERTILIZERS AND SOIL AMENDMENTS

Lykes Agri Sales
Ringer Turf Products
Liquid Ag Systems Inc.
Dakota Reed-Sedge Peat

CHEMICALS

Helena Chemical Co./Ag Resources

SEED

Pickseed West Inc./Ag Resources

EQUIPMENT

Club Car Carryall
Daihatsu Hijet
Florida Sprayers Inc.
Crosley Trailers
Easy Picker Driving Range Vehicles
Douglas Rollers
RedMax Reciprocators
Rainjet Fountains
Windfoil Sprayers

ACCESSORIES

Cylex Granite Signs
Southern Screen and Embroidery Flags
Standard Golf Co.
Lewisline American Eagle
Par Aide Products
FlexStake
Motorola Radius Radios
DNA Sun Helmets
Hammers Recycled Plastics
Fox Valley Marking Paints
Lundrain Drainage Material
Spyker Spreaders
Master of the Links Wood Products
Hole-in-White (Cup Brightener)
Clover Lapping Compound

2582 OLD COMBEE ROAD
LAKELAND, FLORIDA 33805

1-800-330-8874 • (813) 665-5800 • FAX 667-0888

Golf Ventures
a complete line of golf course products



TURF NEWS

ROUNDUP

Golf Summit helps identify apathy as major hurdle

From comments by state officials and bureaucrats who addressed a Florida Golf Summit in Tampa, Oct. 3-4, golf courses soon could be on the receiving end of several broadsides from water management districts and the Florida Legislature.

The industry may be easy prey unless the Florida Golf Council grows and gets stronger.

The council, a relatively new confederation of people who believe in the positive economic value of golfing and golf courses, sponsored the Summit with hopes of finding ways to effectively unify and mobilize concerned people to go out and recruit others to join the cause.

The summit, held simultaneously with the 16th annual Water Management Conference, heard ideas such as:

- All golf courses should be forced to use "recycled water" (sewage effluent) and pay the entire cost of installing distribution lines and pumping the effluent from the various public water facilities — plus pay a per gallon fee for using the recycled water. This notion was strongly voiced by David York, director of reuse for the state Department of Environment Regulation.

- A proposal by Rep. Sandy Safley (R-Pinellas County) to create a state water fee for all users of water at 10 cents per thousand gallons. Safley said his intention was that most users, including residential users and golf courses, would pay but agriculture would be exempted from about 90% of the fee.

Apathy and inaction, especially among golf course owners, shows the industry



Florida Golf Council Executive Director Bobby Brantley

may not be able to prevent the financial and restrictive disaster it faces — unless things change quickly.

Those conclusions were reached by many at the Summit.

The Council, which hopes to effectively lobby against unreasonable law-writing by legislators and over-restrictive rule-making by bureaucrats, has been served by leaders such as Chairman Raymon Finch, owner of Emerald Dunes in Palm Beach County, and Executive Director Bobby Brantley, former state lieutenant governor.

Even though there was concern about the slow response of many golf courses to join and support the council with membership fees, those present agreed to work hard to recruit new members and make the council work.

Among those making the strongest defense of the golfing industry and its positive benefits for the state were FGCSA President, Tom Benefield (see Page 31), and Tim Hiers, an FGCSA past president and committee chairman for governmental affairs.

Hiers was one of several individuals receiving special recognition from Brantley for his assistance and hard work over the past year — the first year — of the Florida Golf Council.

ALSO

Florida has more golf courses and more golf holes than any other state but it doesn't have the most golfers 10

Golf course design and maintenance practices are two factors which heavily influence the speed of play 12

The 63rd International Golf Course Conference and Trade Show sponsored by the GCSAA is expecting a record-breaking crowd to fill the New Orleans Convention Center, Feb. 10-17. 12

CUSTOM CONCRETE BORDERS

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



COLORS
&
CUSTOMERS

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

GO AHEAD! Take Your Best Shot.

We've been setting the standards for Commercial and Industrial sand for 47 years.

Choose from 80 different grades including the finest:

- Greens Mix Sand • White Trap Sand
- Choker Sand
- Dry, Sterilized Top Dressing Sand
- USGA Peagravel

All our sands meet USGA Requirements



For the best product and customer service, call one of our three Florida locations today.



Post Office Box 35
Hwy. 17 & 92 North
Davenport, FL 33837
Phone (813) 422-1171
FAX (813) 422-8610

JACKSONVILLE BRANCH
600 East 8th Street
Jacksonville, FL 32206
(904) 355-0516
FAX (904) 355-2022

MIAMI BRANCH
4101 N.W. 70th Avenue
Miami, FL 33166
Dade (305) 593-1430
Broward (305) 524-5322

State ranks fifth in total number of golfers but is a modest 24th in resident percentage

Florida has more golf courses and more golf holes than any other state — and its lead is widening — but it doesn't have the most golfers and the state's participation rate — percentage of residents who play golf at least once a year — barely makes the top half of the rankings, according to the 1990 Golf Participation Report recently released by the National Golf Foundation.

California has the most golfers with 2.8 million, according to the biennial NGF study. Florida ranks fifth with 1.37 million.

Minnesota leads the nation in participation: 21.2 percent — more than one resident in five play golf. But only 12.3 percent of all Floridians play the game, putting the state 24th in participation.

Nationally, the total number of rounds played in 1990 increased by 6.9 percent to 502 million.

"Core golfers" — those who play eight or more rounds a year — have increased by 4.4 percent to 11.8 million.

The NGF segments the U.S. golfing population into three categories — core golfers, occasional golfers (those age 18 or older who play fewer than eight times a year) and juniors (those age 12-17 who play at least one round a year).

Together these three segments total 27.8 million. Exactly half (13.9 million) are "occasional golfers," 42 percent are "core golfers" and 8 percent are juniors.

"Of these three segments," says NGF Senior Research Director Mike Russell, "the core golfer is undoubtedly the most important to the U.S. golf industry and economy.

"Occasional and junior golfers are important to the golf industry not only for what they already contribute to the overall golf economy, but also for the potential they hold for becoming core golfers."

Other highlights of the report:

- Since 1986, rounds played have increased at an annual compound rate of 4.6 percent (from 418 to 502 million)... participants at a rate of 8.7 percent (from 19.9 to 27.8 million).

- As in prior years, the 1990 survey shows that a majority (70.3 percent) of the rounds played in the U.S. are being

recorded at public facilities. By the same token, it shows also that, on average, private club players play more often (24.6 vs. 16.2 rounds per year) than do those who play at public facilities.

- Last year, the total U.S. golf population increased by 3.6 million (14.9 percent). Each segment experienced increases as well: core golfers by 500,000 (4.4 percent); occasional golfers by 2.5 million (21.9 percent); and juniors by 577,000 (40 percent).

- Hispanics comprise 2.5 percent (694,000) of the U.S. golf population, while blacks account for 2.3 percent (650,000) and Asian/Pacific Islanders for 0.7 percent (192,000).

- Of the 2.8 million people who played the game for the first time this year, 1.2 million or 43 percent were women. This compares to 1989 when 41 percent of all new players were women.

- Seniors (age 60 and older) constitute a much higher percentage (22.5 percent) of core golfers than of occasional golfers (9.1 percent). In addition, although the number of senior golfers is currently holding steady at approximately 3.9 million, they are on a decline as a percentage of the overall U.S. golf population... 14.1 percent in 1990 as compared to 16.5 percent in 1986.

- The national participation rate (percentage of U.S. population that plays golf) increased from 12.0 percent to 13.5 percent in 1990. The highest rates are found among those in their 20s and 30s. Participation in these two age groups are 16.3 percent and 16.2 percent respectively.

"One of the more intriguing statistics for 1990 is the 40 percent growth in junior golfers," noted Russell. "It prompted us to undertake a follow-up telephone survey of golf facilities and junior golf programs, and we discovered that there was indeed an upsurge in juniors taking up the game in 1990... especially among females."

The NGF's 1991 golf participation survey was conducted in January 1991 by Market Facts Inc. of Chicago. A total of 58,292 individual responses were obtained from more than 24,000 households.

Participation Rate

Percentage of residents who play golf

1.	Minnesota	21.2
2.	Utah	21.0
3.	North Dakota	19.3
3.	Wisconsin	19.3
5.	Wyoming	17.4
5.	Iowa	17.4
7.	Idaho	17.0
8.	Michigan	16.9
9.	Illinois	16.0
10.	Ohio	15.3
11.	Nebraska	15.0
12.	Colorado	14.5
13.	Massachusetts	14.3
14.	Kansas	13.8
14.	Indiana	13.8
16.	Arizona	13.7
17.	New Mexico	13.6
17.	Montana	13.6
19.	Washington	13.4
20.	Nevada	13.0
20.	South Dakota	13.0
22.	Oregon	12.9
23.	Connecticut	12.8
24.	Florida	12.3
25.	California	11.8
26.	Missouri	11.7
27.	Vermont	11.6
28.	Kentucky	11.1
29.	North Carolina	11.0
29.	New Jersey	11.0
31.	New York	10.9
31.	Rhode Island	10.9
33.	Pennsylvania	10.8
33.	Maine	10.8
35.	Texas	10.5
36.	Maryland	10.0
36.	South Carolina	10.0
38.	Oklahoma	9.6
39.	Georgia	9.5
39.	New Hampshire	9.5
41.	Virginia	9.4
42.	Delaware	9.3
43.	West Virginia	8.8
44.	Tennessee	8.5
45.	Alabama	7.9
46.	Louisiana	5.6
46.	Arkansas	5.6
48.	Mississippi	5.3
49.	Dist. of Columbia	4.0

South Florida Grassing, Inc

"A Leader in the grassing industry since 1964"

419 SOD • 419 SPRIGS

**TIFDWARF * 328 * HYDROMULCHING * WILDFLOWERS
* GRASSING & MULCHING**

DIRECT FROM HOBE SOUND, FLORIDA
South of Stuart

We provide reworking
and planting
services for fairways, tees
and greens.

Certified 419
and Turfgrasses grown
on gassed, irrigated
sand land.

Phone: (407) 746-7816 • (407) 546-4191 • Fax (407) 546-3482

Liquid Ag 
Systems, inc.

The Original Clear Liquid Fertilizer Company For Your Turf Featuring...

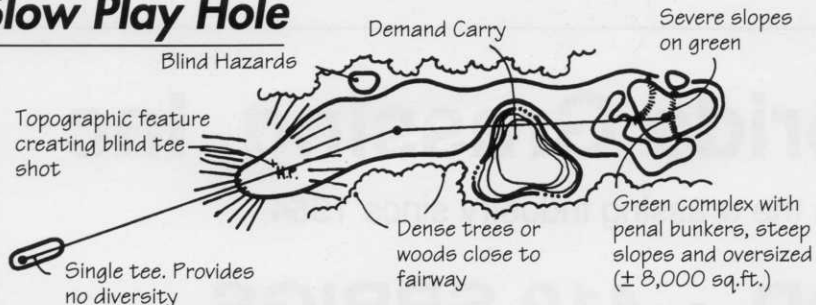
- Flow-sensitive Injection Systems
- Total Concept Service... Delivery, Field Service, and Custom Blend Programs
- New "Micro Green" micro nutrient product line
- Enviro-Safe Containment Systems (state approved)

Pompano
1-800-432-2249
305-971-0022

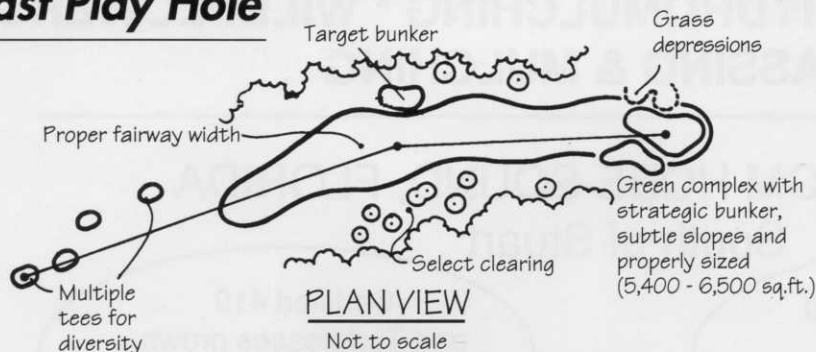
Call Today!

Ft. Myers
813-332-5565

Slow Play Hole



Fast Play Hole



Design helps control tempo

A slow-playing hole, top, often has narrow landing areas, blind hazards and sloped, oversized greens, which can result in fewer rounds played, according to Tom Clark, president of the American Society of Golf Course Architects. A fast-play hole design, featuring visible target areas, properly placed bunkers and hazards and smaller greens, can help speed play.

Architects say golf course design, maintenance affect speed of play

Golf course design and maintenance practices are two factors which heavily influence the speed of play, according to the Tom Clark, president of the American Society of Golf Course Architects.

When players get hung up in tall grass, water, trees or sand, play often slows to a snail's pace, resulting in fewer rounds completed and, particularly for public courses, less revenue than expected.

"A well-designed, well-drained course with visible target areas, properly placed bunkers and water hazards, and smaller greens will usually play fastest," said Clark. "The key is to challenge the player without overwhelming him with hazards and slowing play considerably.

"Getting out of the bunker may take two or three shots and then the player has to rake the area. To speed play, we are designing more grass depression bunkers instead of the traditional sand bunkers. Interestingly, pro players seem to have more problems with grass bunkers than the average player."

Clark also recommends holes be designed with only visible targets, eliminating blind shots, which often end up in the rough or out of bounds.

"Seeing the target is 90 percent of speeding up play," he said.

Oversized greens and poorly maintained water hazards can also slow play.

"We used to design greens as large as 9,000 square feet," said Clark. "Smaller greens, though still a challenge, usually require fewer putts and less time spent lining them up."

The banks of water hazards should be bulkheaded or otherwise kept clean, without weeds or dense grass to hide a ball, he said. Time spent looking for balls slows play considerably and Clark recommends clearing and maintaining wider landing areas.

"Many courses save on maintenance by not mowing certain areas but what they may save in maintenance, they will lose in the number of rounds played."

63rd International GCSAA Conference and Show will convene Feb. 10-17

A record-breaking crowd of golf course superintendents, owners and operators from around the world is expected to fill the New Orleans Convention Center Feb. 10-17 for the 63rd International Golf Course Conference and Trade Show sponsored by the GCSAA.

NFL Hall-of-Famer Terry Bradshaw will keynote the opening session Feb. 13. Singer Kenny Rogers will entertain at the closing banquet.

The eight-day convention will feature 60 educational sessions and seminars, a three-day trade show, the association's annual meeting and election of officers and the traditional closing gala banquet.

Educational topics will range from golf course restoration to protection of water resources.

Nearly 600 manufacturers and distributors of golf and turf industry products, supplies and services are expected to exhibit at the trade show, which runs Feb. 15-17. Ranked as one of the 120 largest shows in the United States by *Tradeshow Week Magazine*, the exhibits will be open for a total of 20 hours over three days.

Immediately preceding Rogers at the banquet will be the presentation of the annual Old Tom Morris Award, GCSAA's highest honor, which is given to "an individual who, through a continuing selfless commitment to golf, has helped to further the game with the same dedication and inspiration demonstrated by Old Tom Morris. Previous recipients include Gerald Ford, Bob Hope and Arnold Palmer.

The 1991 conference in Las Vegas attracted 16,400, including about 1,400 international visitors representing 46 countries outside the United States.

Playing during the convention's first two days (Feb. 10-11) is the annual GCSAA Golf Championship, contested over several golf courses in Ponte Vedra Beach, Fla. A field of 350 will compete for individual and chapter team honors. Representing the Florida GCSAA will be Jim Osburn, Fred Klauk, Dave Oliver and Buck Buckner.

National Golf Foundation sets Golf Summit 92 in Orlando, Oct. 21

Golf Summit 92, the U.S. golf industry's fourth biennial leadership conference, will take place Oct. 21-23, 1992 at Marriott's World Center in Orlando.

The National Golf Foundation has conducted these industry meetings since 1986 when 250 golf industry executives gathered at the Westchester CC in Rye, N.Y.

More than 600 industry representatives attended Golf Summit 90, to exchange ideas and gain insights on the challenges and opportunities impacting golf's growth in the 1990s.

"The increase in attendance and interest over the years has been gratifying," said NGF President Joe Beditz.

"As we enter the planning stages of Golf Summit 92, we hope to develop an agenda that is both timely and of importance to the many industry segments we serve," he said.

Golf Summit 90 was held at Marriott's Desert Springs Resort in Palm Springs, Calif., last November.

Some of the topics included the interaction of supply (golf courses) and demand (players), environmental and other issues impacting golf course development, the growing international market, and opportunities for increasing women and minority golf participation.

Those interested in attending should contact the Golf Summit 92 office at NGF, 1150 S. U.S. One, Jupiter, FL 33477; phone 407-744-6006.

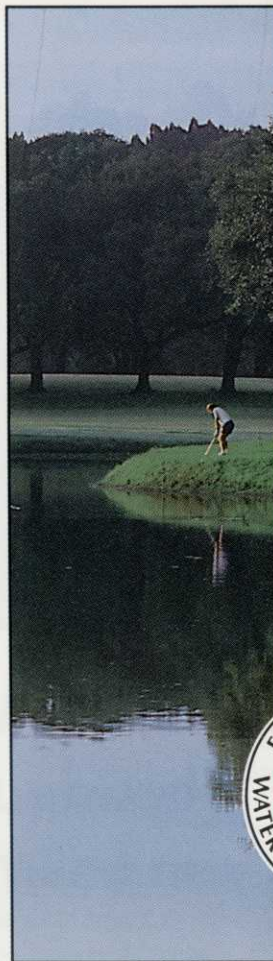
(305) 581-0444

SPREAD-RITE, INC.

CUSTOM SPREADING
FERTILIZER • DOLOMITE • ARAGONITE

LAMAR SAPP

6001 S.W. 19th STREET
PLANTATION, FL 33317
MOBILE: (407) 479-9417



Environmental Waterway Management... "Preserving Your Liquid Assets"

Water, water, everywhere...it's the number one visual and recreational amenity at golf courses, apartment complexes, corporate parks, state parks, cities, and developments throughout FLORIDA—and Environmental Waterway Management's "Aqua-Technicians" and Biologists are specialists in keeping your waterways clean, healthy, and attractive!

Environmental Waterway Management can provide you with ALGAE & Aquatic Weed CONTROL, Floating Fountains, Lake Aeration, Wetland Planting, Fish Stocking and Much More.

For a FREE site analysis, contact

Environmental Waterway Management

East Coast Branch Office
5000 Oakes Road, Building H Fort. Lauderdale, FL 33314
(305) 581-2994 FAX (305) 791-9116

Central Florida Branch Office
4075 L.B. McLeod Road Suite C Orlando, FL 32811
(407) 843-7887
FAX (407) 843-7791

Gulf Coast Branch Office
2147 Porter Lake Drive Suite C Sarasota, FL 34240
(813) 371-8081
FAX (813) 378-9024

Tampa / St. Petersburg / Clearwater Branch Office
1-800-832-LAKE

© 1991 Environmental Waterway Management



DUDA SOD

CertiTurf
THE QUALITY GRASS

Tifway 419

Floratam

Bitter Blue

FX-10



Zellwood 904-383-6111	Cocoa 407-636-3966	Ft. Pierce 407-461-0962
Oviedo 407-365-2189	Ft. Lonesome 813-633-1447	LaBelle 813-675-0545
		Clewiston 813-946-0198

DUDA
A. Duda & Sons, Inc.

1-800-FOR-DUDA





GCSAA President Stephen G. Cadenelli, CGCS, (front, left) assists Chester Mendenhall, a GCSAA past president and the only surviving charter member, in the ribbon-cutting for the official dedication of the association's new international headquarters in Lawrence, Kansas. Also

present for the Sept. 7 ceremony are current and past members of the GCSAA board of directors, from left, John M. Schilling, executive director; William R. Roberts, CGCS, vice president; Randy Nichols, CGCS, secretary/treasurer; Gerald L. Faubel, CGCS, immediate past president; Joseph G. Baidy, CGCS, director; (behind Mendenhall) Gary T. Grigg, CGCS, director; Charles T. Passios, CGCS, director; Dennis D. Lyon, CGCS, past president (1989) and John A. Segui, past president (1988).

GCSAA dedicates new headquarters building in Lawrence, Kansas

GCSAA members and officials, golf industry VIPs and local dignitaries all helped dedicate the Golf Course Superintendents Association of America's new headquarters in Lawrence, Kansas Sept. 7, ending a two-day celebration of the organization's 65th birthday.

"This building is a symbol," said GCSAA President Stephen G. Cadenelli, CGCS. "It is more than brick, mortar and steel. It is a symbol of how far this organization has come in a relatively short — but also long — time.

"More importantly, it is a symbol of the profession. We have truly become a leading profession throughout the world of golf."

The sole-surviving GCSAA charter member, 96-year-old Chester Mendenhall, traveled from Green Valley, Ariz., to cut the ceremonial ribbon, officially dedicating the building. Regretably, Mendenhall died two days later, according to the GCSAA. A past president, Mendenhall had witnessed firsthand most of the association's achievements since its 1926 organizational meeting in Chicago.

"This is truly a spectacular building," said U.S. Rep. Jim Slattery (D-Kan). "As a member of the Energy and Commerce Committee of the U.S. Congress that has jurisdiction over this nation's environmental laws, I am particularly grateful for the leadership that this organization has demonstrated in environmental areas," he said.

"Your new environmental program, the recent development of the public service announcement with the EPA entitled 'Think before you apply,' designed to educate homeowners about the proper use of pesticides to help protect our environment, the environmental research you are sponsoring with the USGA — all demonstrate this organization's commitment to the protection of our nation's environment."

CLASSIC GREENS, INC.

**Golf Course Grassing
Golf Course Renovations
Athletic Fields**

*Specializing in genetically
pure bermudagrasses*

**Classic Dwarf
Tifway (T-419)**

(904) 332-6318 (O)

Phil Horn

Route 2, Box 412-X

(904) 538-0631 (M)

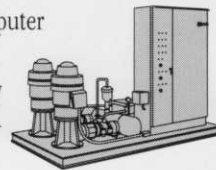
Newberry, FL 32669

USING OUR VARIABLE SPEED PUMP STATION CAN HELP YOU SAVE VITAL PARTS.



Let's face it, in this business it pays to be backed by an industry leader. Because when your pump system goes on line, so does your reputation. And Flowtronex can help you keep both your golf course and your reputation intact with our incredibly reliable, power-saving pump station.

And how do we do all this? With an engineering breakthrough called Smoothflow™. Developed in 1986 by our team of engineers, Smoothflow is a sophisticated computer software program that automatically monitors and controls our pump



station. Which means you no longer have a need for a pressure control valve. And because of this precise control, our Flowtronex variable speed pump stations (VSPS™) have made pressure spikes and pump-related line breaks nearly extinct on our more than 200 golf course installations.

Smoothflow software also helps budgets by slashing energy use 15 to 50% when compared to conventional pump stations using control valves. This is one of the many reasons our VSPS is the industry's most popular. In fact, superintendents have bought twice as many variable speed systems from us as all our competitors combined.

So if you're in the market for a reliable, power-saving pump station, call Flowtronex International. We've got quite a track record for standing behind our customers. And their bottom lines.

For more information, call **1-800-537-8778** or **903-595-4785**. Or write Flowtronex International, P.O. Box 7095, Tyler, Texas 75711.



FLOWTRONEX
International



**Number 7
Wilderness C.C.
near Naples**

Outpost at the end of Alligator Alley

Photos by
Brian
Everhart

“We decided that in the long run the best use of the land was as a golf course...”

BY LARRY KIEFFER

Except for three years in college and two more in Germany with the U.S. Army, Paul Frank has spent his whole life on the site of the Wilderness Country Club in Naples.

“I was born and raised on this property,” says Frank, Wilderness golf course manager and a founding member of the Everglades GCSA.

In a lot of ways, the 57-year life of Paul Frank reflects the modern history of Collier County.

As a youngster, he learned the cattle business on his father’s 420-acre ranch east of Naples, then a backwater Florida community best known for its annual swamp buggy races.

When he returned from his stint in the Army in the mid-1950s, he foresaw the coming of civilization to this outpost at the end of Alligator Alley and the end of cracker-style cattle ranching.

“We decided that in the long run the best use of

the land was as a golf course,” says Frank, his booming voice more fitted to the wide open spaces of nearby Big Cypress Swamp than to the boardroom of Barnett Bank of Collier County, where a director’s chair has carried his name for the past 14 years.

“So we turned the north 200 acres into Hole-in-the-Wall Golf Club and tried to fence off the cattle on the other 220 acres,” Frank recalls.

Hole-in-the-Wall, designed by Dick Wilson, was the county’s second golf course.

Today there are 45 courses and, according to the National Golf Foundation, they are going in faster in Collier County than any other spot on the planet.

“Naples Beach Club’s golf course was getting crowded and the developer of Port Royal, a new upscale subdivision, needed another golf course in the community for his new property owners. So he approached my father and we decided to get into the golf business.”



Number 9



Number 15

The younger Frank oversaw construction of Hole-in-the-Wall in 1957-58 and ran the golf club for 15 years until he and his father decided to quit chasing cattle altogether and develop Collier County's first PUD on their remaining property.

The Franks brought in the Downing and Frye development company, which packaged 300 condos around a generous, 160-acre Arthur Hills layout. Father and son retained about 10 acres for their own residences — the only single-family dwellings on the property.

“Our goal was to preserve the wilderness concept,” says Frank. “That’s why we named it Wilderness CC. We made a conscious effort to save every tree we could. Hills cut the course through cypress swamps, taking advantage of specimen trees whenever possible.”

Wadsworth Construction built the course which features 6,000-square-foot greens and 22 acres of water in 12 lakes.

The fairways and roughs are planted in Tifton 419 bermudagrass and the tees are 328, as are most of the greens. Three greens — 11, 14 and the practice green — are planted in PF11.

PF11? Never heard of it?

That’s because it exists only at Wilderness CC... so far.

“I found this darker, denser mutation of 328 on number 11 green, so I tried to propagate it in a nursery from one stolon,” says Frank. When he had established 300 square feet of his new grass, he planted it on the practice green. When problems developed on 11 and 14, he converted them to his proprietary grass, which he dubbed PF11 in honor of its birthplace.

“I may eventually put it on all my greens... or I may use one of the other grasses I’m working on with Phil Busey (UF turf breeding professor at the Fort Lauderdale Research Center),” Frank says.

PF11 is distinguished from other dwarf bermudagrasses not only by its darker color and denser growth but by its considerably more extensive root structure.

Frank does not oversee his greens.

“This far south, we only get about 12 days that are cold enough for the grass to go off color. And you know the adage — you putt texture, not color.”

He gets by with a surprisingly small maintenance crew of 12 for such a large operation. Paul’s mechanic also doubles as his

Wilderness Country Club

Overview: Occupies south 210 acres of the former 420-acre cattle ranch belonging to the Frank family. Designed by Arthur Hills and Associates; built by Wadsworth Construction Co.; opened in 1974.

Operating Format: Private; membership limited to 300 condominium owners on the property.

Greens: Average 6,000-7,000 square feet, all but two planted in Tifton 328 bermudagrass. Greens cut to 1/4 inch in summer, 7/32 in winter, 3/16 for winter tournaments. Two greens planted in PF11, a hybrid bermudagrass developed by Frank from a mutation of 328.

Fairways and Roughs: Tifton 419 bermudagrass; fairways cut to 1/2 inch; roughs to 1-1/2 inches.

Hazards: 38 sand bunkers, 12 lakes comprising 22 acres.

Crew: 12, including mechanic-assistant superintendent; each person is a "specialist" in at least one maintenance skill and has specific responsibilities on the golf course.

BROOKSIDE LABORATORIES

- Soil testing/Analytical services
- Irrigation water testing
- Environmental testing

Providing a direct line of communication between the course manager and the lab

TOM BURROWS

Turfgrass Analytical Service

- GCSAA certified
- Penn State grad
- FGCSA Past President
- 28 yrs as supt.
- 1989 FGCSA Distinguished Service Award

407-692-1221

1741 San Souci St Stuart, FL 34994



Golf Course Accessories

Ballwashers • Detergent • Mounting Pipes & Bases • Tee Signs • Spike Brushes • Hole Cutters • Flag Poles • Flags • Cups • Rakes • Benches • Tee Markers • Practice Greens Markers • Whipping Poles • Course Signage • And More.

Requested by players. Preferred by course professionals. Specified by designers and used with pride wherever golf is played.

Call your Par Aide dealer today for our **FREE CATALOG**, or call us at 612/779-9851 for the name of the dealer nearest you.

© 1990: Par Aide Products Co., St. Paul, MN.



TAKE THE HAZARD OUT OF GOLF COURSE LAKE MANAGEMENT.

LET US SHOW YOU HOW!

Aquatic Systems, Inc. provides:

- Algae & Aquatic Weed Control
- Floating Fountains & Aerators
- Wetland Mitigation & Aquascaping
- State Permitting & Reporting
- Water Testing & Lab Analysis
- Grass Carp & Sport Fishing Stocking
- Clarification Treatments

LOCATIONS THROUGHOUT FLORIDA:

St. Petersburg • Ft. Pierce • Ft. Myers • Longwood • Miami
Pompano Beach (Corporate Office)

Call 1-800-432-4302 for a free evaluation of your lake management needs.



Aquatic Systems, Inc.
ENVIRONMENTAL SERVICES & PRODUCTS

Number 5

assistant.

"We're very efficient," Frank says, warming to his subject. "Everybody has a specialty and specific jobs on the golf course that he's responsible for. And each person is backed up by two or three others to cover for sickness and vacation.

"You are much better off with a good, small crew than a big, mediocre crew. We offer good compensation and an outstanding benefit package.

"If you have a lot of good equipment, all it takes is a few good people and your efficiency factor goes up."

Like most superintendents, Frank is concerned about the growing pressure from golfers for top-quality golf courses under marginal conditions.

"We're the victim of desire. More people want more of it... and better. The pressure to use more chemicals is tremendous. We must develop better turfgrasses and maintenance procedures that avoid pollution.

"Of course, on a square-foot basis, almost any golf course is a lot better for the environment than a residential lot.

"If you were to take the 160 acres of this golf course and turn



Paul Frank

Age: 57

Employment: Hole-in-the-Wall Golf Club, Naples, manager 1958-1973; Wilderness Country Club, Naples, golf course manager, 1973-present.

Affiliations: GCSAA, Quarter Century member; Everglades GCSA, founding member; Florida Turfgrass Association, former director.

Outside Interests: Hunting and fishing, flying (private license with about 7,000 hours), golf, SCUBA diving, 11-year member of Collier County Planning Commission, director of Barnett Bank of Collier County for 14 years.

Family: Three children.

Education: Florida Southern College, University of Florida.

it into the typical tract housing development, you'd have an environmental disaster waiting to happen. Nobody else uses chemicals at the same rate as the average homeowner and then when you add in the runoff — a golf course creates a lot fewer problems."

Nearing his 58th birthday, Frank has no professional goals unachieved. A quarter-century member of the GCSAA and a former director of the FTGA, he says he might do a little consulting work... and develop his new grasses with Busey.

"I'd just like to give something back... help the game of golf make this a better world.

"And there's a lot of work still to be done."



Your Sand Man

*Choker Sand • Greens Mix •
Trap Sand • Bunker Sand •
Rock • Dolomite • Hi-Cal*

E. R. JAHNA INDUSTRIES, Inc.

Lake Wales, FL 33859-0840 • (813) 676-9431

Premium Quality Sod & Sprigs



Nutri-Turf, Inc.

ONE OF THE ANHEUSER-BUSCH COMPANIES

This Turf's For You!

- Premium Grade Tifgreen (328)
- Premium Grade Tifway (419)
- Premium Grade Tifdwarf
- Premium Grade Tifway II

16163 Lem Turner Road
Jacksonville, FL 32218-1550
(904)764-7100
1-800-329-TURF (In Florida)

Bud Quandt witnessed, made history

BY KIT BRADSHAW

Charles L. "Bud" Quandt has been the superintendent at Pasadena Yacht and Country Club for 23 years and he is proud of Pasadena and its history.

Since opening as Bear Creek Golf Course in 1924, this course near the intracoastal waterway in St. Petersburg has had the legends walk her fairways.

"Walter Hagen and Joe Kirkwood were the first professionals at the club, which was built by Mr. Van Cleet and opened right at the height of the first golf boom," Quandt said. "Within a year there was a famous match between Hagen and Bobby Jones. Jones lost to Hagen, 7-6, and suffered one of his few defeats."

Pasadena also had the presence of two famous "Babes."

"Babe Zaharias once challenged Babe Ruth here. She said she could outdrive Ruth standing on one leg. Zaharias got up to the tee at 18, stood on her right leg and hit the ball 240 yards. Ruth's drive came up 15 yards short."

Until 1964, Pasadena was a stop on the men's professional tour. From 1975 to 1989 it was an LPGA tournament site until lack of sponsorship money caused it to be dropped.



Bud Quandt

Superintendent of Pasadena Yacht & Country Club, St. Petersburg for past 23 years.

Age: 63

Graduate of Arsenal Technical H.S. in Indianapolis. Has attended turfgrass seminars throughout his careers.

Previously superintendent at Seminole Lake C.C. in Pinellas County.

GCSAA 25-year club member; FTGA member for 14 years. Member of West Coast GCSA and held all offices.

U.S. Navy in World War II.

Family: Widowed; Daughter, Sigma; son, Dorsey "Butch" Quandt.

"In 1972, architect Bill Dietsch completely renovated Pasadena," Quandt said. "In 1985, the Arnold Palmer (golf course design) people rebuilt the 18th hole when we moved the clubhouse to its new location. The course has changed a lot since the early days," said Quandt.

"Now we have condos, townhouses and single-family homes around it and we have a marina as well."

Quandt has been involved in many innovations in golf course management the last 20 years. Because of his efforts throughout his career, Quandt received the FGCSA President's Award in 1990.

Previously he received the FTGA's Wreath of Grass Award in 1976, the Horticulturist of the Year award from the University of Florida in 1976 and was named Pinellas County Golf Superintendent of the Year for 1987.

He was the co-chairman (along with Bud Pearson) of the first WCFTGA scholarship and research golf tournament.

And just this past September he hosted the 28th annual scholarship tournament at Pasadena.

Quandt has been on the agricultural advisory committee for the Southwest Florida Water Management District for several years and has seen changes in the effluent quality standards that have taken place and its subsequent benefit to golf courses that are the end users.

"We've come a long way. They now

require the effluent to be treated to a third stage, which is much better than before," he said.

Even though Quandt has kept up with changes in the Industry — and has been instrumental in incorporating these changes at his course — there is a faint yearning for an earlier, simpler time.

"I think some of the real joy in our jobs was going out on the course, where you could see what was going on and just enjoy being outdoors.

"Some of that is lost now... there's so much paperwork and budget work that the younger superintendents may be missing the pure beauty of the courses they are working to maintain."

*President's Award
for
Lifetime Achievement
1990*

*Carl McKinney
Bud Quandt
Bob Sanderson
Paul Turcotte
Adam Yurigan*

*1991
Tom Mascaro
John Hayden
Harvey Phillips
C.R. "Bud" Pearson
Carl Smith*

TURFGRASS QUIZ

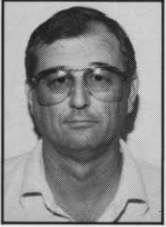
Answer:

Turf has been repeatedly scalped by misadjusted mowers.

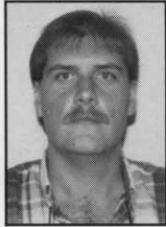
An inexperienced mechanic didn't know how to adjust height of cut.

The problem was amplified by a day-dreaming mower operator who never looked back to see his path of destruction.

WANTED



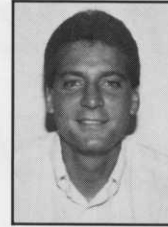
Dick Campbell



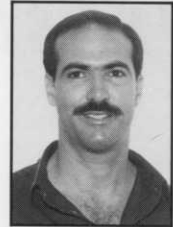
Russ Mitchell



Tom Gaines



Bill Lund



Steve de Mello

OUT OF COMPETITIONS HAIR!

These professionals are guilty of:

- Great Service
- Best Pricing
- Maintaining 4 Service Locations
- Top Products
- Expert Knowledge
- 25 Plus Years of Florida Turf Tradition
- Industry Support

BUT YOU CAN FIND THEM AT:

Dick Campbell, North and Central Florida — (407) 422-2337 Ext. 862 Pager, (407) 247-1727 Mobile

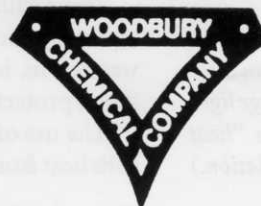
Russ Mitchell, Southeast Florida — (407) 835-5283 Pager, (407) 346-7078 Mobile

Tom Gaines, Dade and Broward Counties — (305) 397-4372 Pager, (800) 432-3411

Bill Lund, Southwest Florida — (813) 883-1724 Pager, (800) 282-2719

Steve de Mello, Tampa Area North — (813) 883-1684 Pager, (800) 282-2719

Woodbury
A TURF TRADITION





Frost, Freeze and Cold Weather Protection

Information and Preparation

Reliable weather information is especially crucial when severe weather and cold fronts approach the North Florida area.

Eddie Snipes, CGCS of the Oakbridge at Sawgrass Golf Course studies forecast maps in the local paper and watches one preferred TV meteorologist. Eddie also uses the toll-free number for N.O.A.A. Weather Radio to receive the latest forecast information. Gary Meadors, CGCS at the Jacksonville Beach Golf Club relies on the local TV and radio forecasts. I listen to N.O.A.A. and watch the Cable TV weather station.

All of us agreed that we stock up on wetting agents (surfactants) before winter and Eddie has a supply of tarps for plant protection. Gary and I do not use tarps or coverings as most of our plant material is cold tolerant. Eddie will cover his sago palms, banana trees and other sensitive plantings around the beach house. Many Florida golf resorts want the tropical atmosphere, but in some areas it is not very practical.

Plant material is not the only part of a golf course that needs protecting when hard freezes are upon us. Irrigation pump stations, controllers, water fountains, and restroom plumbing may all require attention.

Eddie and Gary have electric irrigation control systems, and I have a combination of electric controllers on the tees and greens and 20 hydraulic fairway controllers. In the winter we place rolled insulation in the control boxes. This has worked very well.

(Editor's note: At Isleworth CC in Windermere, each controller had an electric receptacle in the box. Low wattage light bulbs were plugged in to serve as "heat lamps" in addition to exterior insulation.)

If extremely cold weather is expected, Eddie may drain his entire system to prevent pipe damage. Gary will insulate his pump station and/or place a heat lamp in the pump house. Other superin-

cess that is losing popularity. Eddie said that many still try to achieve the same results by applying Milorganite, a black-grained organic fertilizer. Many times the best offense is a good defense. A good

Keeping your golf course from looking like a winter wonderland



tendents protect the exposed restroom plumbing on the course by either draining the lines or adding anti-freeze or alcohol to tanks and bowls to prevent freezing.

Protecting the Turf

All of us agreed on the use of wetting agents as the best preventive measure for turf protection. The wetting agent prevents dew from forming and helps eliminate frost damage.

By applying a wetting agent the day before a freeze, it should last for several days. The newer products can be applied more often without worry of phytotoxicity.

Years ago it was common irrigation practice to either "knock down" frost or even "ice-over" a green or tee to prevent below-freezing air from contacting the turf.

The technology on wetting agents, especially those that do not have to be watered in, is revolutionizing frost and freeze protection.

The use of powdered charcoal to absorb heat from the sun was a messy pro-

dose of potash applied in the late fall or early winter will help turf survive or recover from a freeze. If damage does occur, it may be wise to raise the height of cut on the greens and apply a good source of chelated iron.

Cold-weather damage is usually minimal because it rarely stays below freezing for extended periods. Frost damage on is not usually a factor overseeded turf. Gary and I concurred that if frost is present on fairways a short syringe cycle may be necessary to thaw the ice crystals.

Any time you are forced to change the playing conditions or delay the opening of the course to play, the greens committee, the pro, and the members should be informed of the reasons for your actions.

Summary

Common sense is one of your best weapons. Be prepared. Stay on top of weather conditions. Keep lines of communication open. Remember! This is Florida! It can't stay cold for too long.

A Lake is a REFLECTION
of its MANAGEMENT

The Lake Doctors 1-800-666-LAKE

•TURF TRACER • FOAM GARD • RUST BUSTER • BEAUT/

ALMAR

Quality
Service
Economy

CHEMICAL CO. INC.

P.O. BOX 18101
TAMPA, FL 33679

CALL COLLECT:
813-839-3363

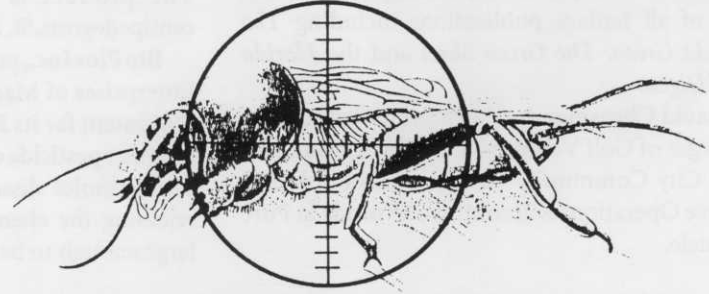
STUART COHEN
EAST FLA.

RUSS VARNEY
WEST FLA.

• KNOCK M' DED • GRIME OFF • GREEN LAPPING SOAP • RUST BAN • GREEN MAGIC
• TURF KOTE • WATER PENN • GREEN MASTER • SCRAM //

GREEN • PENETROL • KICK IN THE GRASS • TURF IRON • SUPER WET • EV R GREEN •

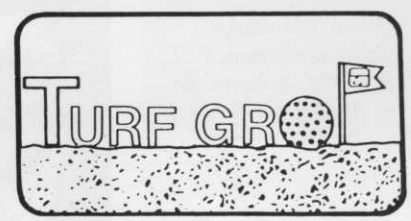
An Un-Welcome Sight!



**Take Aim With Sunniland
Molecricket Bait**



Sunniland
Regional Managers



Dennis Varady (407) 332-9078
Steve Goedereis (407) 964-9478

Wayne Carmichael (904) 272-4891
Joe Kempeneer (813) 743-2643

Post Office Box 1697, Sanford, Florida 32772-1697 Telephone (407) 322-2421 • 1-800-432-1130

Turf Industry Roundup

Hritsko, McGuire new Bardmoor superintendents

New superintendents have been named for both golf courses at Bardmoor in Largo. **Stephen J. Hritsko**, Bardmoor assistant for the past two years, moves into the top job at Bardmoor North Golf Club. **Joseph J. McGuire**, former assistant at Saddlebrook Resort, takes the reins of the new Bayou Club designed by Tom Fazio.

Charles B. "Bud" White has joined Lesco, Inc. as director of golf development. The former USGA agronomist and private consultant will "work with golf course owners, developers, builders, designers and architects in representing Lesco's broad product and equipment lines and technical services," said Philip R. Gardner, executive vice president for sales.

Philip Pettus has joined Janlark Communications as managing editor. The veteran Florida newsman will supervise the editing and production of all Janlark publications including *The Florida Green*, *The Green Sheet* and the *Florida Turf Digest*.

David Cheesman has been promoted to sales manager of Golf Ventures. The 1983 graduate of Lake City Community College's School of Golf Course Operations will continue to reside in Port St. Lucie.

Lee Record will represent NK Medalist Turf Division of NK Lawn & Garden Co., Minneapolis, in the Southeast. Also joining the NK sales staff will be **Michael W. Tentis**, Western Region, and **Luis B. Mendoza**, Midwest.

Frank Hardy has been named Southeast regional sales manager for the Greensmix division of Faulks Bros. Construction, Inc. His territory will include Florida, Georgia and the Carolinas.

Steve Wood has been named lawn and garden marketing manager for Husqvarna Forest & Garden Co. He will work out of the company's office in Charlotte, N.C.

Keith Happ, CGCS, has won the first turfgrass management scholarship offered by the Best Sand Corp., Chardon, Ohio. Happ, formerly superintendent at Legend Lake GC in Chardon, has been on the dean's list at Ohio State University every term since he became a full-time student last December.

Bill Anderson, a graduate student in sports administration at Ohio University, has won the inaugural Don Rossi Scholarship offered by the National Golf Course Owners Association.

Ciba-Geigy's Princep liquid pre-emergence herbicide is now available to control a wide variety of annual broadleaf and grassy weeds in turf and ornamental plantings when used at selective rates. The product is labeled for bermudagrass, centipedegrass, St. Augustinegrass and zoysiagrass.

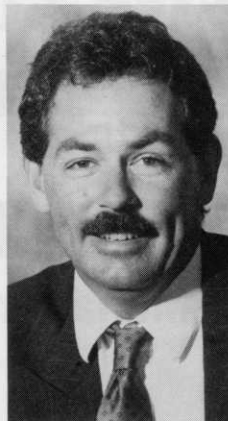
Bio Plus Inc., principally owned by Pennington Enterprises of Madison, Ga., has received a process patent for its Bio 170 granules, a special inert granular pesticide carrier made from peanut hulls. The granules dissolve as soon as they are wet, releasing the chemical and leaving no particles large enough to be consumed by wildlife.

Turf Industry Roundup

Companies doing business with golf course superintendents in Florida are invited to submit their news releases to *The Florida Green*, c/o Janlark Communications, P.O. Box 336, Auburndale, FL 33823.



Stephen J. Hritsko



Joseph J. McGuire



Charles B. White



Steve Wood

We work at ground level...



**so you can
play on top!**

The fact is, **Central Florida Turf** is working hard to provide you with superior workmanship in construction of new golf facilities, irrigation with all turf installations or renovation of existing golf courses... *and all at a competitive price!*

Jeff Harstine
President/Vice President

Rodney Davis
Secretary/Treasurer

Dennis Crews
Sales Manager

Central Florida Turf, Inc.

4516 East Kinsey Road
Avon Park, FL 33825
(813) 452-2215 • 800-422-1187



We are dedicated to helping turf grass managers do their jobs more efficiently by striving to provide the best parts and service available

DISTRIBUTOR FOR

TORO CUSHMAN/RYAN OLATHE

TORO IRRIGATION
GREEN MACHINE
BILLY GOAT
POWER TRIM
FOLEY
MAIBO
OHIO
CROSLY TRAILERS

CUSHMAN INDUSTRIAL
TRENCHMASTER
OTTERBINE
NATIONAL MOWERS
BERNHARD EXPRESS DUAL
CHEM-PRO SPRAYERS
ALLEN HOVER MOWERS
HAMMER RECYCLED PLASTICS

STANDARD
PAR AIDE
BROYHILL
CYCLONE
GANDY
WINDMILL
VICON

SALES MANAGER, Don DeLaney
(407) 333-3600

JACKSONVILLE
1741 Hamilton St. 32210
(904) 387-0516

TERRITORY MANAGERS
Carl Heise
John Higgins
Bob Ward

LAKE MARY
300 Technology Park 32746
(407) 333-3600

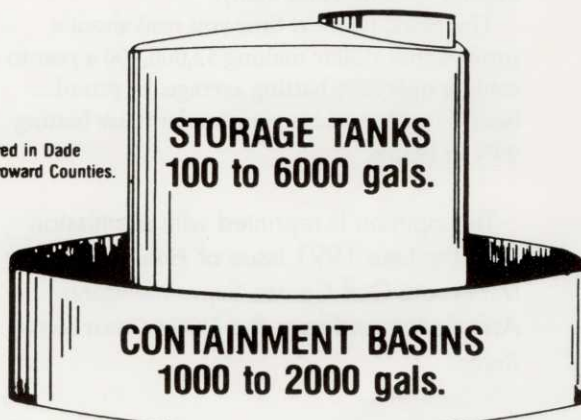
TERRITORY MANAGERS
Phil Bradburn
James Griffin

**Containment Basins for liquid
fertilizer/pesticide storage.
Statewide delivery. Order today!**

We are your direct source for tanks of all sizes, spray guns, nozzles, hose and more. Send today for your free products flyer!



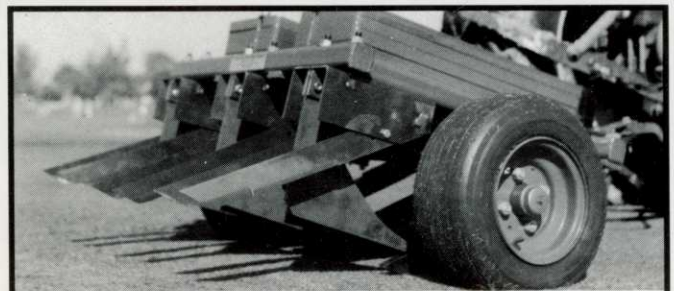
**CHEMICAL
CONTAINERS, INC.**
P.O. Box 1307 Lake Wales, FL 33859
Telephone (813) 638-2117



* Required in Dade and Broward Counties.

**STORAGE TANKS
100 to 6000 gals.**

**CONTAINMENT BASINS
1000 to 2000 gals.**



**The Turf-Tec
Verti-Groove
Greens Attachment**

Removes soil up to six inches deep

Don't rebuild that bad green... Verti-Groove it!

Turf-Tec International

4740 NE 12th Avenue
Oakland Park, FL 33334

1-800-258-7477

An opinion on unreasonable expectations

‘Everything cannot be perfect on every golf course every day. Even if it were possible, what would it cost?’

BY STANLEY J. ZONTEK
 Director, Mid Atlantic region
 USGA Green Section

Golfers are well known for making comparisons. They seem to take pride in telling anyone who will listen how a course down the road does something this way or that. They compare budgets, acreage maintained, soils, grass types, green speed, the amount of labor and many other facts. Sometimes, the comparisons are accurate, sometimes not.

Let's take this comparison one step further. It's not really valid, but it is interesting, nonetheless.

Baseball: A .250 batting average is just that — an average. A ball player hits safely one at-bat in four. A "star" bats .300 and an immortal like Ted Williams bats .400. If you are keeping score, and you should be, that's four out of ten.

Basketball: Superstars shoot just over 50% from the field. They shoot a ball into a hoop at a distance of zero (a dunk) to 18-22 feet or more.

Golf: A par round of golf is normally about 72. Golfers who consistently shoot less than par are found on the PGA tour making lots of money. Golfers who shoot consistently over par are found everywhere and includes those people making comparisons. The average handicap in the country is just over 18. The average golfer, therefore, shoots about about 25% over par.

At what percentage do golf course superintendents produce quality turfgrass? As a basis for comparison, golf courses contain about 30 acres of fairways, 2.5 acres of greens and 2.5 acres of tees. This equates to about 100,000 square feet of greens and tees and 1,320,000 square feet of fairways. Thus, if a superintendent "bats" .400, which would put him in great company in baseball, it means your superstar would lose the equivalent of 10.8 greens and tees

out of 18. On fairways, he would lose about 18 acres of turf.

While this .400 batting average might get you into the Baseball Hall of Fame, you would probably lose you job as a golf course superintendent.

All of this may sound ludicrous, but the fact remains that golfers have set such high standards for their golf courses that maintaining these standards is difficult, expensive and

sometimes impossible to achieve. To keep alive every blade of grass on every green, tee and fairway regardless of the conditions and not being willing to accept anything less is wishful thinking and a mistake.

Everything cannot be perfect on every golf course every day. Even if it were possible, what would it cost?

So, look at your golf course. My message to course officials reading this opinion is not to be so concerned if the

golf course superintendent bats only .998. After all, this equates to losing about 200 square feet of turf, a 10-foot by 20-foot area of greens or tees and 2,640 square feet of fairways or six-one-hundredths (.06) of an acre.

Anyone who bats this percentage or better deserves a pat on the back, not a kick in the pants. After all, what other industry which deals so closely with Mother Nature can boast a 99% average or better. Not many.

Therefore, the next time you read about a professional athlete making \$2,000,000 a year to achieve only 30% batting average, be proud... because golf course superintendents are batting 99% or better.

This opinion is reprinted with permission from the June 1991 issue of *Hole Notes* of the Minnesota Golf Course Superintendents Association and from the *USGA Green Section Record*.

What's your batting average?

LANTANA PEAT & SOIL

10570 Hagen Ranch Road

Boynton Beach, Fla.

732-4116

1-800-433-5552

STERILIZED SOILS • TOP DRESSING

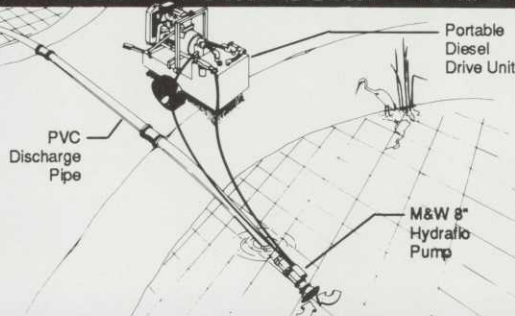
TOP SOIL • MULCH • POTTING SOIL

"Keeping Golf Courses Green"

Whatever the liquid

M&W PUMP-CORP.

Rental Division can handle it, from 500 G.P.M. to over 1 million.



2^{over}
000 G.P.M.

4 RENT

Move over 2000 gallons per minute with the **M&W 8" Hydraflo Pump**. Equipped with a 60' 8" P.V.C. discharge pipe and Portable Diesel Drive Unit set up is quick and easy. Call your nearest location for rental today.

208 N.W. 1st St. • Deerfield Beach, FL 33441 • (305) 426-1500 / 7775 Oslo Rd. • Vero Beach, FL 32968 • (407) 770-0004



No other manufacturer, O.E.M. or aftermarket, puts what we do into a roller. Our rollers **LAST LONGER AND COST YOU LESS!**

TWO seals are Better than one

Every roller manufactured by Douglas Products comes equipped with a dual seal system; an inner seal for grease retention and an outer seal to keep out dirt. AND they ride on a stainless steel wear sleeve to assure the integrity of the sealing element throughout its life.

THERE IS NO SUBSTITUTE FOR QUALITY!

 **DOUGLAS
PRODUCTS**

Tel: 407/582-6180

1810 HYPOLUXO ROAD SUITE D-9 LANTANA, FLORIDA 33462

FOR ORDERS OR INFORMATION DIAL TOLL FREE

1-800-521-8891

IN FLORIDA DIAL

1-800-541-2255

WAIT FOR TONE, THEN DIAL

368-4527

Greenward

A compendium of news and opinions about government, golf and the environment

The following items have been excerpted from GCSAA Government Relations Briefing, Oct. 91, for Greenward section of Florida Green

Wetlands revisions and definitions proposed

Proposed revisions to the 1989 Federal Manual for Identifying and Delineating Jurisdictional Wetlands were published by EPA in the Federal Register of Aug. 14. Wetlands protection continues to be an important issue in golf course management, especially in the management of construction and renovation projects.

The following information summarizes the document that EPA provided to GCSAA. The information may be dry (pardon the pun), but a basic understanding of wetlands determination and characteristics is important for today's golf course superintendent.

Definition

Wetlands are areas where land and water meet. In general, they are lands that are either inundated with surface water or saturated by groundwater long enough during the growing season to make it necessary for the vegetation to adapt to growing in saturated soil conditions. The periodic or permanent wetness is the fundamental factor that make wetlands differ-

ent from uplands. In certain seasons, many ecologically important wetlands may be dry or lack signs of plant life. Wetlands can range in size from tens of thousands of acres, to as small as a table top.

Proposed changes

The major changes would serve to increase the burden of proof required to identify and delineate a wetland. Clarifying and restricting the manner in which field indicators are used to determine whether the three criteria (See "Three Criteria" below) are met should simplify wetlands delineation.

Except in limited specified circumstances, demonstration of all three parameters (wetland hydrology, hydrophytic vegetation and hydric soils) would be required for delineating vegetated wetlands. The exceptions to this rule would apply to a disturbed wetland area or an area specifically listed in the proposed Federal Manual.

Wetland types that are widely recognized as valuable, but may fail to meet one or more of the three criteria during all or some part of the year, are listed as exceptions. These include such areas as a playa lake, prairie pothole and vernal pools.

Another proposed change would lengthen the periods of inundation to 15 days and of saturation to 21 days dur-

ing the growing season. (The 1989 manual required only seven days of inundation or saturation during the growing season.) The changes would also require saturation all the way to the soil surface. Localized differences in the growing season would also be considered.

The revised hydric soils criterion would specifically state that hydric soils must be field-verified. Hydric soils maps would no longer be sufficient evidence that hydric soil exists in a potential wetland area.

—Don Bretthauer, GCSAA Government Relations Manager.

Three criteria for identifying wetlands

Wetland Hydrology — The presence of water is what makes a wetland a wetland. Unless specifically addressed in the proposed revised Federal Manual as exceptions or disturbed areas, areas without any of the hydrologic indicators provided in the proposed Federal Manual are considered non-wetland areas.

Hydrophytic Vegetation — The term refers to plants that live in "wet" conditions. However, the majority of plant species growing in wetland areas also grow in non-wetlands or in upland areas. Thus, plants alone cannot be used to identify and delineate wetlands. If a plant species found in an area primarily occurs in wetlands (in a particular region), this fact is a consideration for wetland determination.

Hydric Soil — The National Technical Committee for hydric soils has developed

criteria for what constitutes this soil type and has developed a list of these soils for the nation. "Hydric" is defined as "relating to or requiring considerable moisture." Wetlands typically possess hydric soils but the presence of hydric soil indicators does not necessarily mean that the area is a wetland.

In most cases, all three of the above characteristics must be met in order for a geographic area to be considered a wetland.

Audubon program recognizes course

The Honors Course in Ooltewah, Tenn. has been chosen as the first golf course to be recognized for its conservation and preservation efforts under the Audubon Cooperative Sanctuary Program.

Superintendent David Stone, an avid naturalist, has instituted several programs to help identify, monitor and encourage a variety of wildlife species at The Honors Course.

Stone and Rod Dodson, executive director of the Audubon Society of New York, will serve as instructors for a new seminar scheduled Feb. 12, at the International Golf Course Conference and Show in New Orleans. "Wildlife Management and Habitat Conservation" will offer information on ways superintendents can identify and encourage wildlife habitation at their courses.

The Honors Course, which hosted the 1991 U.S. Ama-

teur Championship, was constructed in harmony with the existing site topography, thereby minimizing the negative impact of excessive soil disturbance. Naturalized tall grasses are encouraged to grow in areas between greens, tees and landing areas, while native shrubs and tall grasses border the roughs, streams and pond shorelines. Nest boxes for birds are located throughout the course.

As of early September, more than 175 golf courses had registered to participate in the Audubon Cooperative Sanctuary Program. The program is sponsored by the USGA and administered by the Audubon Society of New York State.

Congressman lauds GCSAA environmental efforts

U.S. Congressman Jim Slattery of Kansas' Second District praised GCSAA's recent environmental efforts in a speech delivered at the association's headquarters dedication and 65th anniversary ceremony Sept. 7 in Lawrence, Kan.

"As a member of the Energy and Commerce Committee of the U.S. Congress that has jurisdiction over this nation's environmental laws, I am particularly grateful for the leadership that this organization has demonstrated in environmental areas," Slattery said.

The five-term congressman commended the association's new environmental management program, the recent development of a public service an-

nouncement to educate homeowners about the proper use of pesticides and the environmental research that GCSAA cosponsors with the USGA.

FIFRA amendments bill to be introduced

Rep. Charles Rose (D-N.C.) is expected to introduce a FIFRA amendments bill in the U.S. House of Representatives. The bill will likely contain language addressing a fast-track registration process for "safer" pesticides. This "fast track" would allow biologicals and environmentally friendly pesticides to receive registration approval more quickly.

The bill would also allow companies to have exclusive use of such new discoveries.

In addition, the bill would define re-registration and establish a cutoff date for registrants to comply with data requirements. EPA would not be allowed to change the cutoff date or to add data requirements after the cutoff date had been established.

The bill is not expected to spell out federal and state pre-emption of local governments on pesticide issues.

EPA must say if used oil is hazardous

The U.S. District Court for the District of Columbia has set a deadline for EPA to decide whether used oil should be listed as a hazardous waste.

The agency reached a settlement in a suit filed by the Natural Resources De-

fense Council, the Hazardous Waste Treatment Council and the Association of Petroleum Refiners. Under the terms of the agreement, EPA issued a statement on Sept. 3, outlining the options that EPA is considering. These options are: 1) listing all used oil as hazardous waste, 2) listing used motor oils as hazardous but exempting industrial oils, 3) not listing any used oils as hazardous, but instead issuing management standards and good business procedures, 4) listing only residuals from oil burning operations as hazardous.

EPA has until May 1, 1992, to make a final determination. If EPA decides to list used motor oils as hazardous waste, superintendents who hold used oil for more than 90 days may be considered a small-quantity generator. States differ on the maximum amount of hazardous waste a facility may store before that facility is considered a small-quantity generator.

Du Pont cancels ornamental uses for two fungicides

Du Pont has announced plans to voluntarily cancel all ornamental uses for the products Benlate WP and Tersan WP. A spokesperson for Du Pont said that the cancellation was an economic decision, explaining that sales of the products were not significant enough to warrant continued ornamental labeling.

In March, Du Pont recalled its Benlate 50DF, Benlate 1991 DF and Tersan 1991 DF fungicides to possible atrazine contamination. While the

March recall was not the primary reason for the Benlate WP and Tersan WP cancellations, the associated costs were a factor. If you have questions about the cancellation of these products, you may call Du Pont at 800-441-7515.

Bureaucrat: make golf courses pay

The Florida Golf Summit, a gathering of golf course owners, superintendents, and industry suppliers heard a Florida bureaucrat say he favored forcing the state's golf courses to take treated effluent from municipal sewage treatment plants.

Golf courses should also be required to pay for the installation of distribution lines to get the effluent and should pay a per gallon fee as well, David York said. York is the director of re-use for the state Department of Environmental Regulation.

York's position was challenged by FGCSA President Tom Benefield, who told the gathering that "Society creates the problem, yet we in the golf business are expected to carry the lion's share of the expense in recycling it.

"If golf courses weren't available to take this effluent, it would have to be sent to the ocean or deep-well injected into the ground..."

"Golf courses provide a tremendous service to society, yet we're expected to pay for it all," Benefield said.

Sponsored by the Florida Golf Council, the Florida Golf Summit took place Oct. 3-4 in Tampa at the Hyatt Regency hotel, coinciding with the 16th annual Water Management Conference.

“A good superintendent is his own toughest critic.”

Perfection is only a perception. It is often desired and seldom attained. If idealistic perfection is sought but not achieved, then perhaps realistic excellence will be the result.

who have rescued, renovated, and rehabilitated turf maintenance operations at club after club only to be faced with threats of dismissal when things aren't perfect. Imperfections don't have to be tolerated, but they should be understood. Focusing on a small problem can magnify it out of proportion to the overall excellent job being done by the superintendent.

No golf course is ever perfect

Perfection is not likely ever to exist on a golf course. One man's fast greens are another man's three-putt nightmare. A tall rough is the low handicapper's challenge and the high handicapper's double bogey. One member shoots par and thinks the course is

“perfect” and the next person can't break a hundred and thinks the course is terrible. And so it goes.

It seems that even accomplished golfers can't quite comprehend that golf turf is a living, growing carpet of vegetation that endures use and abuse by people, machines, and mother nature. It is likely that during periods of poor growing conditions combined with heavy play there will be thin or worn turf areas. Trying to maintain 100 percent perfect putting surfaces at 1/8, 5/32, or even 3/16 of an inch day after day is an impossible task.

A good superintendent is his own toughest critic. He doesn't need someone who doesn't really understand the complex nature of golf turf conditioning to nitpick the golf course. A good superintendent with adequate resources at his disposal will address and correct the flaws that exist if it is possible to do so.

Green Side Up



Joel D. Jackson

Joel D. Jackson, CGCS

Golf course superintendents should strive for perfection as they groom and condition their courses. They may never reach absolute perfection, but competent professionals will develop programs that produce overall excellence and improved playing conditions. To paraphrase Abraham Lincoln: *You can grow some of the grass all of the time, all of the grass some of the time, but you can't grow all of the grass all of the time.*

It is very frustrating to hear of excellent dedicated superintendents,

This is the season to be thankful for all the good things in our lives. If you have a superintendent who has obviously demonstrated his professional skills, be thankful and appreciative for the changes and improvements he has made to your club. This is a good time to be realistic and charitable in your perceptions about the level of excellence at your club. After all, no one is perfect!

ONE GOOD
THING...



LEADS TO
ANOTHER



At NuCrane Machinery, we see a future of unlimited possibilities in the turf industry. A strong commitment to *service* directs our corporate philosophy. The new age products represented by NuCrane, developed through advanced computerized technology and backed

through experience, are the central core and most essential part of our success. We also realize the importance of involving "*the superintendent*" in all of our development decisions. Our NU beginning promises to lead NuCrane Machinery into the 21st century.

NUCRANE MACHINERY

...on the cutting edge of a NU future



2001 D. North Congress Ave.
Riviera Beach, FL 33404
(407) 842-0440

417 Central Park Dr.
Sanford, FL 32771
(407) 323-9555

11820 Lacy Lane
Ft. Myers, FL 33912
(813) 275-4441

72104 Corporate Way
Thousand Palms, CA 92276
(619) 343-0270

LESCO PRE-M

a proven performer at Pinehurst

Brad Kocher, Director of Golf Course Maintenance at Pinehurst Resort and Country Club, and LESCO PRE-M go back to the beginning. That was in 1986 when PRE-M first became available. Brad had joined Pinehurst in 1984 and started a battle with goosegrass in fairways and roughs. He began winning in 1986 when he added LESCO PRE-M 60DG to his arsenal of control products.

Now, after five years, he's well satisfied that LESCO PRE-M has passed every test and has proven its effectiveness. "My assistant Bob Farren and I watch what the market has to offer and we continue to use PRE-M," he said. "Based on the results of university testing, we use the split application method with the first application in late March or early April and the second during the first two weeks of May.



Bob Farren

Brad Kocher

"This is the first year we've used it as a band around the overseeded fairways," he said.

"We don't see any problems

in the area where we spray PRE-M but I see a lot of germination outside of that band. We spray right up to the collar of the green without any problems. This gives us an instant edge and looks neat right off the bat.

"PRE-M enables us to realize a

clean delineation between overseeded fairway and rough at the time of germination. We do not have to wait for bermuda dormancy followed by non-selective post emergence spraying".

Brad uses PRE-M on all seven courses at Pinehurst, which is more than 500 acres. "We haven't found any negative effects or visual evidence of root inhibition as far as devel-

oped bermudagrass is concerned," Brad said.

"Because of the effectiveness of PRE-M and the fact that we don't have to worry about its short or long-term use on ryegrass, we can guarantee the best rye on the fairways during March, April and May, our busiest months of the year," Brad said.

"I kind of wish PRE-M had been available when I was in Florida," he concluded.

To find out more about PRE-M, contact your LESCO sales representative, visit a nearby LESCO Service Center, or call (800) 321-5325. In Cleveland, 333-9250.



LESCO

ESTABLISHED 1962

20005 Lake Road
Rocky River, Ohio 44116

Fertilizers, Seed, Control
Products, Equipment, Parts

LESCO - PRE-M is the proven performer.