Products you can Depend on, from People you can Trust.

The grass is always greener on our side of the fence.

You can tell the difference between a golf course using Rain Bird products and one using another brand. That’s the reason that so many golf courses are switching to Rain Bird. Rain Bird is the leader in all categories of golf irrigation products: the CIRRUS, NIMBUS & STRATUS family of software is the standard of the industry for computerized central control. EAGLE Rotors have taken the industry by storm as the only closed case, top serviceable rotor on the market. PAR and MSC field controllers are full featured and durable. All are available in hard-wire or wire-less control and electric and hydraulic. And, when you use Rain Bird products, you get the Quality, Value & Service provided by our staff of experienced professionals.

The pros use our irons around their greens.

When you’re looking at the competition, it can appear to be a crowded field. But not all are the same. It’s the same with Textron. Textron is the largest manufacturer of turf care products in the world, and Kilpatrick Turf Equipment has the most extensive product line of turf care products in the world. Our Jacobsen mowers provide the highest quality of cut and most dependable operation. Our Ryan line of aerators and sod cutters provide you with high quality specialty products. Our Cushman utility vehicles are the standard of the industry for dependability, ruggedness and comfort. We have the most comprehensive line of turf care products, parts and services in the world. And when you use Textron products, you get the Quality, Value & Service provided by our staff of experienced professionals.
A Family of Companies Dedicated to Providing you with...

Kilpatrick Turf Equipment and Boynton Pump & Irrigation Supply are your best choice for turf care equipment and products for use on your golf course. When you need turf equipment or irrigation products, let us provide you with Quality, Value & Service.
6 SPOTLIGHT: TWO PRESIDENTS AWARDS

Jim Walker and Ron Hill were accorded the FGCSA Presidents Awards by the South Florida and North Florida GCSAs respectively.

14 COVER STORY: THE VILLAGE GREEN

In a suburban transitional area between city and wilderness west of Boynton Beach, the Country Club of Florida literally serves as the village green for Florida's incorporated Village of Golf.

29 PROFESSIONAL DEVELOPMENT: IT'S ALL ABOUT ATTITUDE

What a blessing it was for the late Jim Martello to have an employee walk in the door with the right attitude, a working knowledge of the business, a willingness to please, and an all-around team player.

30 HANDS ON: IRRIGATION MANAGEMENT

It is critical that superintendents keep their owners advised of water-use issues and solicit their help in educating politicians, water management districts and the general public about golf's true impact on the community.

46 STEWARDSHIP: WATER USE BECOMES TOP CONCERN

Water use has replaced pesticide use as the industry's major environmental concern. The bottom line is that there is only so much to go around.

52 AFTERWORDS: COURT, JARREL & JACKSON

David Court looks back over 30 years of golf course management, Mark Jarrell describes the impact of recent state budget cuts on the UF/IFAS turfgrass program and Joel Jackson does unto himself what he usually does to others.

About the use of trade names: The use of trade names in this magazine is solely for the purpose of providing specific information and does not imply endorsement of the products named nor discrimination against similar unnamed products. It is the responsibility of the user to determine that product use is consistent with the directions on the label.
Are You Getting Soaked?

Water Availability is diminishing, and getting more expensive every day. These tiny particles can help save you big money on water.

University Tested, Superintendent Approved.


---

The Show Goes On

Well, to put it into the proper perspective, I should say, "The 'shows' go on." If I take advantage of all the educational opportunities and trade shows offered by the associations I am a member of or affiliated with in early 2002, I'd be away from work with the exception of one week during the period from Jan. 12 through Feb. 10.

I would fly from Orlando to West Virginia (National Institute of Golf Management, Jan 13-17) to Phoenix (NGCOA Conference Jan. 19-23) to Harrogate, UK (BTME Jan. 22-24) back to Orlando (PGA Merchandise Show Jan. 24-27) and finally after a week at work (GCSAA Show Feb. 3-10). All of these conferences are directly related to our industry. All are equally important in terms of the information they provide and all of this going on when I'm up to my armpits in members down here for the season!

So which conferences to attend? Without a shadow of a doubt, you should pencil in the GCSAA conference and show regardless of the location (those who attended last year will know what I mean). If travel costs are an issue, at least attend every third year it is held in Orlando.

The conference and show provides great educational opportunities for everyone with topics from communication skills to agronomic principals and environmental awareness. The opportunity to network with those from other states and from abroad, who share the same passion for their jobs as you do, is invigorating. The opportunities to experience the latest and greatest in equipment; to discuss new chemistries now available for pest control and the see the advances in fertilizer technology are boundless. Don't forget the little guys and new companies. It's amazing what some of those little guys will grow into.

Secondly if you and the golf professional are on good terms (as I know you all are) then ask if you can attend the PGA Merchandise show with him/her. If a joint trip isn't possible, then go yourself. The show is immense and just walking around the exhibits will help you realize the magnitude of our industry. Your appreciation for the work the golf professional performs will increase as well.

The third event I would definitely attend during the year would be the Florida Turfgrass Association Conference in August. It's a little quieter time of year if there is such a thing. It's a little closer to home in the way of travel expense, and a whole lot closer to home in terms of particularly relevant information, the virtues of which I will extol upon in a future column.

The point to all this is, don't be caught with your head in the sand; you can make no excuses for the lack of opportunities that are available to you. Present your case to the powers that be. Highlight the benefits of attending and continuing your education so that as you grow personally, so too will your net worth to the club or facility be increased.

May everyone have a happy and a prosperous New Year.

Geoff Coggan, CGCS, MG
MEASURE YOUR SUCCESS WITH VOPAK.

Let's talk success. Measurable success. Not the, "well, things seem to be going okay" kind of success. We're talking the "we spent less time and got 50% greater weed control thanks to that new product you recommended" kind of success. That's what you get with Vopak. Vopak's turf and ornamentals sales representatives bring you the products, training and knowledge that give you measurable results. Want your success to take root and grow? Call your Vopak T&O representative today or visit www.turfweb.com.

Vopak (formerly Van Waters & Rogers)

To contact the Vopak office nearest you, call 1-800-888-4897.
Jim Walker never gave up his love for golf courses. In tribute to his leadership, the SFGCSA presented Walker with the FGCSA President's Award for Lifetime Service.

SFGCSA PRESIDENTS AWARD
It Has Been A Long Road From Night Water Man
An Autobiography

The road leading to my receiving the 2001 FGCSA President's Award from the South Florida GCSA began 31 years ago at the Pecan Valley Country Club in San Antonio, Tex. I was the assistant irrigation technician (night water man) plugging in quick couplers and doing course prep work.

Pecan Valley hosted the PGA Championship in 1968 and it was a great place for a golf hound like me to begin my career. The course was a J. Press Maxwell design and I consider myself lucky to have run or worked at many courses that had great architects.

After Pecan Valley, came the Ocala Golf Club where I worked under Jim Yancey, older brother to PGA great Bert Yancey, the course manager and golf professional. He had hired Jim to be a working superintendent and the experience there was great. Bert hosted tour players Frank Beard and Deane Beamon who assisted in the transformation of the course into FGCSA championship-caliber. I attended Miami Dade Junior College and Valdosta State College on a baseball scholarship and, in my senior year, I was on the NCAA Division 2A National Championship team. I was MVP for the series going 8 for 11 at the plate with three home runs, a triple and a double. I got looks from the Chicago Cubs and Boston Red Sox after college, but my fastball was too slow and major league pitching is a world of difference from college ball.

For the past 23 years, I have been the manager or superintendent at various times at the Key Biscayne, Palmetto, Briar Bay and Greyneys Park golf courses for the Miam-Dade County Parks Department. It was also in 1978 that I met Alan Weitzel, my long time friend and sometimes boss. Those 23 years have been interesting to say the least. I'm a Howard Coell type of guy so politics was never my bag. I give Alan a lot of credit for helping me see the importance of junior golf. Over the years we did a lot of work bringing this wonderful game to kids in South Florida. We also started a golf league which is still going strong 23 years later.

One of the things I'm most proud of is the people who started their golf maintenance careers with me. At Briar Bay they included: Carlos McKeon, Eric Knudsen, Robert Wethy and Susi (Goldstein) Walker. At Greyneys Park a long-haired, skinny kid right out of college named Joe Pantaleo moved and fertilized his first bermudagrass with me. With six years to go before retirement, I still enjoy the golf course business. I have served on the South Florida GCSA board since 1994 and was president in 1998 to 2000. Susi and I live in the Kendall area and besides playing golf, I'm an ardent audiophile. While all this golf stuff was going on I was a pretty fair jazz musician whose band played at the American Pavilion during the 1964 World's Fair in New York...but that's another story.

South Florida Chapter Past President Jim Walker never gave up his love for baseball even though he never made it to "The Show." Much to our benefit, he traded in running bases to running golf courses. In tribute to his leadership, the SFGCSA presented Walker with the FGCSA President's Award for Lifetime Service.

SFGCSA PRESIDENTS AWARD
It Has Been A Long Road From Night Water Man
An Autobiography

The road leading to my receiving the 2001 FGCSA President's Award from the South Florida GCSA began 31 years ago at the Pecan Valley Country Club in San Antonio, Tex. I was the assistant irrigation technician (night water man) plugging in quick couplers and doing course prep work.

Pecan Valley hosted the PGA Championship in 1968 and it was a great place for a golf hound like me to begin my career. The course was a J. Press Maxwell design and I consider myself lucky to have run or worked at many courses that had great architects.

After Pecan Valley, came the Ocala Golf Club where I worked under Jim Yancey, older brother to PGA great Bert Yancey, the course manager and golf professional. He had hired Jim to be a working superintendent and the experience there was great. Bert hosted tour players Frank Beard and Deane Beamon who assisted in the transformation of the course into FGCSA championship-caliber. I attended Miami Dade Junior College and Valdosta State College on a baseball scholarship and, in my senior year, I was on the NCAA Division 2A National Championship team. I was MVP for the series going 8 for 11 at the plate with three home runs, a triple and a double. I got looks from the Chicago Cubs and Boston Red Sox after college, but my fastball was too slow and major league pitching is a world of difference from college ball.

For the past 23 years, I have been the manager or superintendent at various times at the Key Biscayne, Palmetto, Briar Bay and Greyneys Park golf courses for the Miam-Dade County Parks Department. It was also in 1978 that I met Alan Weitzel, my long time friend and sometimes boss. Those 23 years have been interesting to say the least. I'm a Howard Coell type of guy so politics was never my bag. I give Alan a lot of credit for helping me see the importance of junior golf. Over the years we did a lot of work bringing this wonderful game to kids in South Florida. We also started a golf league which is still going strong 23 years later.

One of the things I'm most proud of is the people who started their golf maintenance careers with me. At Briar Bay they included: Carlos McKeon, Eric Knudsen, Robert Wethy and Susi (Goldstein) Walker. At Greyneys Park a long-haired, skinny kid right out of college named Joe Pantaleo moved and fertilized his first bermudagrass with me. With six years to go before retirement, I still enjoy the golf course business. I have served on the South Florida GCSA board since 1994 and was president in 1998 to 2000. Susi and I live in the Kendall area and besides playing golf, I'm an ardent audiophile. While all this golf stuff was going on I was a pretty fair jazz musician whose band played at the American Pavilion during the 1964 World's Fair in New York...but that's another story.

South Florida Chapter Past President Jim Walker never gave up his love for baseball even though he never made it to "The Show." Much to our benefit, he traded in running bases to running golf courses. In tribute to his leadership, the SFGCSA presented Walker with the FGCSA President's Award for Lifetime Service.

SFGCSA PRESIDENTS AWARD
It Has Been A Long Road From Night Water Man
An Autobiography

The road leading to my receiving the 2001 FGCSA President's Award from the South Florida GCSA began 31 years ago at the Pecan Valley Country Club in San Antonio, Tex. I was the assistant irrigation technician (night water man) plugging in quick couplers and doing course prep work.

Pecan Valley hosted the PGA Championship in 1968 and it was a great place for a golf hound like me to begin my career. The course was a J. Press Maxwell design and I consider myself lucky to have run or worked at many courses that had great architects.

After Pecan Valley, came the Ocala Golf Club where I worked under Jim Yancey, older brother to PGA great Bert Yancey, the course manager and golf professional. He had hired Jim to be a working superintendent and the experience there was great. Bert hosted tour players Frank Beard and Deane Beamon who came down in the winter and played until the tour started in California each year. Being around those guys gave me much insight on what top players thought were important in course conditioning.

Two and a half years later I left Ocala GC to become the assistant superintendent at the Silver Springs Shores GC also in Ocala. One reason for making the move was that Mel Sligh, the superintendent, was a UF graduate who had studied under Dr. G.C. Horn and had a lot of knowl-
The Palm Beach Chapter defended its FGCSA Team Championship at Southern Dunes GC. From left, front row: Steve Bernard and Mark Henderson. Back row: Terry Kennelly, Tyler Warner and Jeff Klontz. Photo by Joel Jackson.

A rainout on Sept. 29.

In a sudden-death playoff under threatening skies and falling temperatures, Bernard, from the Adios GC, said “adios” on the first hole of the playoff when he failed to get up and down from just short of the green. Pantaleo made a routine four and Ondo scrambled from behind the green to save par and force extra holes. The two matched routine pars on the second and third holes. On fourth hole, a par-five into the wind, both players were over the green in three and had long putts after chipping up. Pantaleo’s putter, which had made some 30 footers earlier in the day, failed him in the clutch and he three-putted, allowing Ondo to two-putt for a bogey and a victory.

Ondo and the Palm Beach Chapter team both successfully defended their titles as low gross and team champions. The Palm Beach team consisted of Steve Bernard, Mark Henderson, Terry Kennelly, Jeff Klontz, and Tyler Warner. Palm Beach eked out a one-stroke victory over Central Florida.

Ondo’s victory secured a spot on the FGCSA team to compete in the GCSAA Golf Championship in February at the World Golf Village in St. Augustine. Joining Ondo on Florida Team No. 1 will be Bob Roessing, the Pou Annua champ; Chris Curtin, winner of the Crowfoot Open and Mark Hopkins with the low average in two of the three qualifying events. Steve Bernard will be the first alternate in the event one of the qualifiers cannot participate. Other prize winners were first and second low net finishers Chris Clark and John Lammersh.

Only five chapters managed to muster up teams who braved the ominous forecast of stormy weather over the state for the weekend. A stationary front managed to keep most of the rain south of central Florida and the 36 players struggled in the windy conditions and light sporadic drizzle to complete the tournament. Our thanks to superintendent Bayne Calliavet and the folks at Southern Dunes for their assistance and hospitality in hosting our annual championship for the sixth time.

SOUTH FLORIDA GCSA

17th Annual Event Raises $15,000 for Kids in Peril

For the last 16 years, the South Florida Golf Course Superintendents Association has sponsored a tournament to benefit the National Center for Missing & Exploited Children/Florida. To date, the tournaments had raised more than $140,000 to support Florida programs. On Oct. 5, the donation increased to more than $155,000 with the tremendous success of the 17th annual tournament held at Colony West Country Club in Tamarac.

Twenty years ago, the Center began its work out of tragic circumstances, the abduction and

UGLY UGLY UGLY

There’s no other way to describe NEMATODE DAMAGE!

Hendrix and Dail’s new, patented product, TURFCURE 376™ controls turf-damaging nematodes with minimal turf damage and little or no chance of run-off or exposure to humans or wildlife. Our patented machine injects TURFCURE 376™ into the soil beneath the thatch layer with minimal surface disruption.

In today’s world of rising environmental concerns and falling inventories of effective compounds, this is a bright spot. We have a proven, labeled, ready-to-go product with a patented, turf friendly machine. Our staff is ready to help.

HENDRIX AND DAIL, INC.
7610 US Hwy 41 N., Palmetto, FL 34221
800-726-5215
www.hendrixanddail.com
murder of Adam Walsh. Today the center is part of a national network of nonprofit centers helping thousands of children and their families every year. "The SFGCCA is one of our charter supporters and partners," said Reve Walsh, co-founder and Board member of NCMEC. "The children in Florida have access to child safety information and programs, and their parents have access to an efficient and effective response team if their child is missing. This would not be possible without the continued loyal support of the SFGCCA."

Players in the tournament enjoyed a day of golf that culminated in an awards presentation. The SFGCCA was presented an award for 17 years of outstanding support from Mike Christiansen, a NCMEC Board member and trustee, and the chairman of the Florida Branch Advisory Board. Colony West Country Club was also presented an award for hosting the tournament for the past five years.

The National Center for Missing & Exploited Children, a private, 501(c) 3 organization, was established in 1984 as a national resource center on child protection and a clearinghouse for information on child victimization. Since its creation, NCMEC has assisted law enforcement on over 77,000 cases of missing children, and has played a role in the location and recovery of more than 60,000 children. The National Center for Missing & Exploited Children FL Branch is the central point for NCMEC child protection education and prevention. Through September NCMEC/FL received 523 missing-child cases and participated in the recovery and location of 308 children. The organization made 88 presentations to 2,073 children and 322 adults, and eight presentations to 205 law enforcement officers.

Nancy A. McBride, Director of Prevention Education NCMEC/FL Branch

TREASURE COAST GCSA
2001 Blue Pearl Funds Go to 911 Victims' Families

The Treasure Coast Golf Course Superintendents Association held its annual Blue Pearl Charity Golf Tournament Oct. 1 at the Medalist Golf Club. Once again Nucrane Machinery was the presenting sponsor.

The Blue Pearl has always promoted the preservation of the environment in which we live. The Treasure Coast GCSA has accomplished this goal by supporting the Audubon Program for Schools with the proceeds from the Blue Pearl event.

However, in light of the tragedy which befell our country on Sept. 11, the proceeds in 2001 will be directed toward an entirely different group of children. After a unanimous vote, the board of directors of the TCGCSA decided to donate the proceeds to the "Families of the Victims Fund."

The Treasure Coast GCSA would like to thank all the participants, sponsors and contributors for their generosity in helping us to raise more than $13,000 during this year's event.

Barbara Tierney
John's Island Club

SPREADRITE, INC.
CUSTOM SPREADING
FERTILIZER • DOLOMITE • GYPSUM
ARAGONITE • HYCAL LIME

FAIRWAY TOP DRESSING
LAMAR SAPP
ART SAPP
6001 S.W. 19th STREET
PLANTATION, FL 33317
MOBILE: (561) 479-9417
MOBILE: (954) 383-4036

Upstart Products, Inc.
Performance Chemistry
For Aquatics & Turf

CASCADE PLUS
LIQUID OR GRANULAR

PHYTO-FOS
FAST RELEASE SYSTEMIC PHOSPHOROUS

AMINO ACID BIOFERTILIZERS
1 800 203 5629
The Treasure Coast GCSA would like to thank and recognize the following sponsors for their support of:

THE EIGHTH ANNUAL
Blue Pearl Charity Golf Tournament
AT THE MEDALIST CLUB

A special thank you to our Presenting Sponsor Nucrane Machinery

Tee Sponsors and Gift Sponsors
AquaGenix, Inc./DeAngelo Bros.
Aquatic Systems, Inc.
Calusa Pines
Cobblestone C.C.
Cycle Wise, Inc.
Dodgertown, Inc.
Dow AgroSciences
DuCor International
Eagle One Golf Products
Eagle Marsh G.C.
Fairwinds G.C.
Florida Superior Sand, Inc.
Florida Potting Soils
GASH
Golf Ventures, Inc.
Grand Harbor
Hammock Creek
Harbour Ridge G.C.
Harrell's, Inc.
Haverland Turf Farms

Hawks Nest
Hector Turf
Helena Chemicals
Heritage Ridge G.C.
Indian River Club
John's Island Club
Lake Masters
Legacy Golf Club
Lesco, Inc.
Links At Pointe West
Loxahatchee Club
Lykes Agri Sales
Miles Grant C.C.
North Palm Beach
Nucrane Machinery
Ocean Reef Club
Orchid Island
PGA Reserve
Piper's Landing C.C.
Professional Pesticide Applicators
Red Stick Golf Club
Seaview Services, Inc.
Suncoast GCSA
Syngenta Crop Protection
Tee-to-Green Turf Products
The Mole Hole
Three Putt Nursery
UHS/Roots
Valent USA Corp.
Willoughby Golf Club

WINTER 2002
Introducing, more choices
for mole cricket and fire ant control
New labels. New formulations.

Two pests have long been the leading insect problems for superintendents in the South — mole crickets and fire ants. Now, one family of insecticides brings you the ultimate solutions for these problems with low-dose fipronil formulations — Chipco® Choice™, Chipco TopChoice™, and Chipco FireStar™.

Chipco Choice™

Launched in 1996 as a slit-applied product, Chipco Choice quickly became the product of choice for mole crickets — providing control for six months or more with just one slit application. Now, the new label adds new sites, pests and the flexibility of broadcast application. When broadcast-applied for fire ants, a single application of Chipco Choice provides up to 52 weeks of control and bonus control of mole crickets (4 months), fleas & ticks (1 month), and nuisance ants (3 months). The broadcast application requires a spreader capable of applying 12.5 lbs. product/acre.

Chipco TopChoice™

New Chipco TopChoice provides one-step fire ant control for up to a full year. Formulated specifically for broadcast application with a standard spreader (87 lbs. product/acre), TopChoice is designed to be very different from other fire ant treatments: No multi-step processes. No time-consuming mound treatments. Just one easy, broadcast application is all it takes to get up to 95 percent control in 4-6 weeks, and eliminate the threat of fire ants for up to a year. Plus, an application of Chipco TopChoice for fire ants will also control mole crickets, fleas, ticks, and nuisance ants.

Chipco FireStar™

New Chipco FireStar delivers fipronil in a unique, easy-to-use granular bait that’s highly attractive to fire ants. The result is effective control with just 0.00015% active ingredient, the lowest concentration in any fire ant treatment. FireStar makes an excellent partner for Chipco Choice or TopChoice — use it to treat landscape beds, embankments and sand trap perimeters, the bases of trees, and other hard-to-reach places fire ants favor.

To learn more please talk with an authorized Chipco agent. Call 1-800-843-1702 for the agent nearest you, or visit our website at www.aventischipco.com for more information.

The Chipco family of professional products for golf courses includes:
The 38th Annual Bud Quandt Research and Benefit Tournament was held at the Pasadena Y&CC in St. Petersburg Oct. 22. The turnout was excellent with 140 players participating in a four-person scramble. The day started with a huge buffet breakfast followed by guest speakers Tim Williams of Gatorland in Kissimmee; Joel Jackson, FGCSA director of communications and John Foy, director of the USGA’s Green Section Florida Region.

Golf was up next followed by a bountiful buffet dinner. After dinner, chapter recognition awards, sponsor gifts, and tournament prizes were presented. The evening was capped by an exciting raffle drawing.

Everyone had a great time and the proceeds will be donated to environmental turf research, All Children’s Hospital, H. Lee Moffitt Cancer Center and student scholarships. A special thank-you to all of our loyal sponsors and the players who helped make this fund raising event such an outstanding success.

Whit Derrick, GCSA/Florida West Coast GC Tournament Director

SCRAMBLE TOURNAMENT TEAM WINNERS

GROSS DIVISION
1st Place (55): Hruby, Powell, Lyerly, DeSears
2nd Place (58): Martin, Knotts, Klinger, Wheaton
3rd Place (58): Johnson, Reash, Foss, Whiteleather
4th Place (60): Danworth, Ginter, Fletcher, Hoffman
5th Place (60): Weeks, Morgan, LaGree, Frutchey

NET DIVISION
1st Place (49.2): Cook, Cook, Harding, Futch
2nd Place (52.9): Delaney, Lewis, World Woods GC in Brooksville, Fla earned specialization in Golf Course Development.
3rd Place (53.7): Ayer, Rogers, Huellman, Bryant
4th Place (54.6): Andretta, Ley, Lamp, Gonsoles
5th Place (54.4): Brawley, Hazzard, Baldwin, Corwin

SKILL CONTESTS
Closest to the Pin: No. 2 Kevin Vereb, No. 8 Scott Corwin, No. 11 Rick Fletcher, No. 16 Derek Vaughan
Longest Drive #12: Steve Johnson
Straightest Drive #13: Mr. Newcamp
Putting Contest: Bill Blaire and Bill Moore

World’s Magnolia and Palm courses was profiled on the GCSAA website as host of the PGA Tour’s National Car Rental Classic tournament in October.

GCSAA Recognizes Florida Superintendents

Certification: John W. Sibley, Jr. golf course superintendent at Tocotta Country Club has been designated a Certified Golf Course Superintendent by the GCSAA. The on-site inspection of Sibley’s golf course operation was conducted by two certified golf course superintendents: Steve Ehrbar, CGCS, Lost Tree Club; and Dan Jones, CGCS, of West Palm Beach, Fla.


Tournaments: Scott Welder, golf course superintendent at Disney

North Georgia Turf, Inc.

“Providing Sodding and Sprigging Services to Golf Courses”

- Superior Cold Hardiness
- Superior Response to Close Tee and Fairway Mowing Heights
- Genetic Purity
- Mole Cricket Non-Preference

For Fairways and Tees

1487 Blackdirt Road
Whitesburg, Georgia 30185

800-273-8608

THE POWER of Foliar Nutrition ...
Hyperspectral Turf Enhancer Program

(800) 340-3888

P. O. BOX 291370, TAMPA, FL 33687
FAX (813) 988-0329

THE FLORIDA GREEN
Thank you!

The Bud Quandt Tournament Committee would like to thank the following industry partners for their continuing support of the West Coast GCSA.

Diamond Sponsors
Aventis / Chipco/U.H.S. - Todd Himelberger/Robert Giehls
Coastal Equipment - Glenn Thompson
Golf Agronomics Supply & Handling - Chris Leahy
Golf Ventures - Don Delaney
Harrell's, Inc. - Perry Haley

Platinum Sponsors
Ag Resources, Inc. - Mike Ayer
Bayer Corp. - Greg Pagano
Benny Crawford, CPA
Greg Norman Turf/Bayer - Mike Ayer
Hendrix & Dail - Roger Hruby
Howard's Fertilizer - Steve Talkington
I.G.M. - Greg Plotner

Gold Sponsors
Central Florida Soil Lab - Dennis Moseley

Lake Masters/Aqua Turf - Mike Martin
Lesco/Southern Golf - Steve Burrell
Liquid Ed - Russ Armitage
Master Turf Farms - Mike Cook
Palma Ceia CC - Buddy Carmouche
Pro Source One - Paul Fox
Tampa Bay Turf - Terry Brawley
Tom's Sod Service - Don Seeley

Clear Water Cruises - Andy Schramek
Dow AgroSciences - Raymond Miller
Florida Potting Soils - Frank Hardy
Irrigation Service - Richard Ferrell
Lewis Equipment - Tom Wells
Liquid Ag, Inc. - Wilson Randolph
Tides Golf Club - Louis DeVos
Webb's Nursery - Jamie Webb

Patron Sponsors
Country Side CC - Dale Reash
DuCor International - John McKeown
Florida Irrigation - Wayne Garrett
Southern States, Inc. - Earl King
Number 8, Par 3, Photo by Daniel Zelazek
When most of us think of Palm Beach County, we think of the highly urbanized coastal strip of beachfront hotels, private mansions, high-rise condos and inland waterways. If you go five miles west of U.S. Highway 1 on Golf Road in Boynton Beach, you find the suburbs, which soon give way to the Loxahatchee National Wildlife Refuge in another mile or so. In fact almost 90 percent of Palm Beach County is either agricultural land or wildlife management areas.

In that suburban transitional area between city and wilderness, the Country Club of Florida literally serves as the village green for Florida’s incorporated Village of Golf. The 166-acre golf course is surrounded by the homes of the residents whose homes are on a continuous perimeter road that encircle the course within the gated community. The Country Club of Florida, like so many Palm Beach County golf courses, provides vital green belt areas for the highly urbanized southeast Florida cities.

The Village of Golf and its Country Club of Florida have tried to maximize the environmentally friendliness of the golf course by active participation in the Audubon Cooperative Sanctuary Program. CCF was designated a fully Certified Audubon Cooperative Sanctuary Feb. 1, 1999. It has truly been a cooperative effort among residents, members, consultants and staff. The best part is that the continual “naturalizing” of the course has only served to enhance the golf experience.

The Country Club of Florida is...

The Village Green

By Joel Jackson, CGCS
In February, the GCSAA will present the Country Club of Florida with a 2001 Chapter Environmental Stewardship Award in the private club category at the International Golf Course Conference and Show in Orlando. Golf course superintendent Jeff Klontz put it this way, "As our environmental awareness grew by participating in the ACSP program, we learned that any time we made a change or improvement to the course layout and design to help drainage, playability, and golf conditions, we could just as easily enhance the course by adding native plant materials to help frame the holes, clubhouse and practice areas in the near future. To put it this way, "As our environmental awareness grows, it is imperative that we use practices and take the time to see how he could accomplish the desired playing conditions and at the same time reduce inputs to the environment: in other words, walk the talk on Integrated Pest Management.

With the installation of 45 purple martin houses on the course, Klontz began to learn the feeding, nest-building, egg-hatching and fledging habits of the birds. He found that his on-course programs could have huge impacts on the birds by adjusting the timing of his procedures. If pesticide and aquatic herbicides were applied during nest-building periods, some of the materials could be incorporated into the nests and bird houses, which could have possible negative effects on the young birds. By altering schedules and products, Klontz is able to maximize fledgling survival rates.

In general Klontz has been reducing traditional synthetic chemical applications and using more aggressive cultural practices, like more frequent aerifications, to reduce environmental impacts. He is experimenting with more biological control products to replace older products. Klontz takes the broad view of maintenance, and even simple things like improvements to the irrigation system help by making it easier to grow healthier turf which requires less chemical dependency. Another area being looked at is the turf variety used on the golf course.

Currently CCF has very successful Tifdwarf greens that are overseeded with G-2 bentgrass in the fall. The club is looking at the possibi
Native Grasses and Aquatic Plants
3869 S. Nova Road, Port Orange, FL 32127
THE ROAD TO ACSP CERTIFICATION

THE PATH, PROJECTS AND PEOPLE

1990 - 1996 Small steps: Joined the ACSP program. We watched, asked questions, listened and learned.
Reviewed proper use of all chemicals.
Stocked golf course ponds with largemouth bass and bream.
USGA and Audubon International efforts to enhance golf course wildlife.
Purple martin houses installed - Bill Lugar. City approves reuse water for course irrigation.
Club signs contract for IQ water.

1997 Getting serious: Established Audubon Committee - Dr. Robert Rabom, chairman.
Members - Buzz Jaskella, Charles Hedlund, William Fay, William Lugar, Barbara Borden, Eugene Koch, Kate Shortz and Anne La Salle. ACSP resource inventory completed.
1/29/97 - over 100 members attend ACSP program meeting hosted by Shelly and John Foy.
Environmental planning projects discussed in Greens and Grounds Committees.
Pesticide applications reduced. More biological products used as replacements.
Cultural practices on the course increased - aerification, etc.
4/97 - Certified in Environmental Planning.
8/97 - Klontz consults with Kilpatrick Irrigation on pump station and pipe plans.
8/97 - Klontz participates in Kidstown Audubon program.
Buzz Jaskella designed our first ACSP planting south of the 8th tee.

Dead pines left as snags for cavity nesting birds.
Osprey nest installed on the 11th hole.
34 nesting boxes for woodpeckers, yellow crested flycatchers, Carolina wrens, screech owls and blue birds installed.
 Shoreline vegetation planted on the 2nd, 5th, and 11th pond banks - Lorna Tippit.
Aeration devices installed in lakes to improve water quality.
CCF's first Urban Water Bird Survey. 53 varieties of birds visited the course. - Chuck Hedlund.
Summer project - 9th tee, wetland and Oak Grove Wildlife Corridor completed. A joint project of Beautification and Audubon committees.
10/97 - New pump station and irrigation upgrade completed.
12/10/97 - Annual Wildlife Corridor Walk with 50 members.
12/30/97 - Certified in Outreach and Education.
1998 We're On a Roll: Only three more programs to complete for certification.
CCF prepares to receive IQ Water.
5/98 - CCF is finally supplied with IQ Water for irrigation.
8/1/98 - Permitting approved for 14th tee project and lake bank enhancement (a joint Audubon and Beautification committee project).
South Florida WMD requires more littoral zone aquatic plants for 14th hole project. Due to fall tropical storms, original plants were submerged. Many plants have improved with falling water levels and plant mass should increase.
24 purple martin houses installed for CCF homeowners. 10 more installed on the golf course. 70 young purple martins fledged - Ann LaSalle, Kate Shortz, Gladys Walsh and Dr. Rabom.
Many homeowners installing bird feeders.
ACSP committee educates homeowners about the ACSP Back Yard Program.
1999 The Home Stretch:
1/27/99 - Cleaned all 45 purple martin houses - Gladys Walsh.
2/1/99 - Received full ACSP certification and registered as 24th in Florida and 159th in the world.
6/1/99 - Counted all purple martins: 200 hatchlings.
Installed new purple martin house at pump house. Donated by Elliott Spafford.
Fall - Revised Audubon Island project and developed new ideas for wildlife enhancement. Ideas from Wakodahatchee Wetland on Jog Road. Buzz Jaskella helped design new ideas for visual plan for committee members to study.
2001 And Beyond: New Audubon Committee Chairman Chuck Hedlund
Protect and enhance the quality of the environment.
Educate more homeowners about the ACSP Back Yard Program.
Develop Oak Grove Wildlife Corridor with orchids - Dr. Valenti, Orchid Master. In memory of Ms. Betty O’Neil.
Support the Village with wildlife enhancement programs and butterfly garden.
Proceed with expansion of the Island Corridor according to fall 1999 revised plan.
Continue our leadership and stewardship of the land.
Stimulate Florida mallard duck population.
Save the pine trees with Emerald Tree soil injection treatment - President Neil Howell.

Your Sand Man

- Trap Sand
- Top Dressing Sand
- Greens Mix
- Green Divot Sand

All Sands meet U.S.G.A. Specs

E. R. JAHNA INDUSTRIES, Inc.
Lake Wales, FL 33859-0840 • (863) 676-9431
ty of introducing TifEagle sometime in the future. Most clubs looking at changing green's grasses are well served by growing test plots on practice greens for at least a year to make sure the grass does well in that club's location. This method has saved clubs a lot of money and heartache.

In 2001 Klontz replanted the back nine tee tops in Sea Isle 1 paspalum. So far he likes the density of the grass and its recuperative powers to heal divots more quickly than Tifway 419. Because of CCF's location and Sea Isle's cold tolerance, Klontz hopes to avoid overseeding the back nine tees. Once again turf variety selection helps to reduce environmental inputs.

On the horizon is a possible regrassing project for the fairways. The current composition is a mixture of Tifway 419 and other bermuda off-types. That project is too far away for a specific grass type to be selected yet, but no doubt CCF will consider which turf will best meet the expectations of the golfers and minimize environmental impacts.

Another key environmental input is the reclaimed water used to irrigate the golf course. Klontz has some concerns over the long term effect of reclaimed water on the course soil chemistry which could affect water percolation and nutrient uptake.

While upgrading the pump station and irrigation control system to help deliver water more efficiently, Klontz is experimenting with an ESP electrolysis system that reportedly alters the electric charge of the water molecules, enabling water to be more efficient in the soil. The system, originally developed for sanitation use in the meat-packing industry, has been used sparingly in golf course irrigation applications.

Says Klontz, “We have had the unit installed for six months and subsequent soil reports indicate at least a 90-degree turn in sodium and bicarbonate values. I am taking the long-range view on this tool. I will need to see an overall reduction in water, fertilizer and chemical usage to be totally convinced. But because it is a simple, natural process that can potentially have a huge impact on our budget and the environment; I'm willing to give it a try.”

If You're Looking for Improved Pest Control . . . Du Cor has an Easier Solution!

New Du Cor LEMWET can help improve your pesticide spray application! LEMWET is a lemon extract attractant and surfactant for use with most pesticides. LEMWET attracts nearby pests to your spray. In addition, it's non-ionic surfactants improve spray penetration and bring your pesticide into close contact with pests!

For over 35 years, Du Cor has been coming up with products to fit our customers needs. From liquid micronutrients, humates and fertilizers, to specialty dyes, surfactants, odor counteractants and more, we take pride in finding special solutions that help our clients.

So if your looking for something special to attract a nuisance, or maybe just a different solution to help you grow, give Du Cor a call. We may already have just the solution you need!

---

Tifton Physical Soil Testing Laboratory, Inc.
Accredited by the American Association for Laboratory Accreditation (A2LA)

Specializing in:
- Testing All Materials for USGA Golf Green Construction.
- Developing Putting Green Rootzone Mixtures that meet USGA Specifications.
- Recommending Topdressing and Bunker (Trap) Sands that meet USGA Specifications.
- Developing Sportsturf Rootzone Mixes with Optimum Physical Properties for Athletic Fields.

1412 Murray Avenue
Tifton, Georgia 31794

T. Powell Gaines
(229) 382-7292
COVER STORY

COUNTRY CLUB OF FLORIDA

Country Club of Florida maintenance staff. Photo by Joel Jackson.

Location: Village of Golf
Ownership: Member owned
Playing policy: Private
18 Holes: Gold Tees 6,746 yards, Par: 72.
Course/Slope Ratings: Gold 72.6/134, Blue 71.0/131, White 67.8/122, Silver 64.8/112
Management: Club President William Marx; Green Chairman William Rodawig; Audubon Chairman Chuck Hedlund; Club Manager Scott Bragg; Golf Professional John Fleming; Golf Course Superintendent Jeff Klontz.
Major Renovations/Ongoing Projects: Complete course renovation in 1986 moving 250,000 cubic yards of soil to create contours and mounding. Greens rebuilt to USGA specs with 2-inch choker layer. The course was replanted with Tifway 419 fairways, Tifgreen 328 tees and Tifdwarf greens. In 2001 we replanted the back nine tees with Sea Isle 1 rye and 7 lbs. Poa annua. Back 9 in Sea Isle 1. Fairways, Tifgreen 328 tees and Tifdwarf greens. In 2001 we replanted the back nine tees with Sea Isle 1 rye and 7 lbs. Poa annua. Back 9 in Sea Isle 1.

Roughs: 35 acres of Tifway 419 & Ormond Bermuda. HOC: .625 - 1.0". Overseeding: None.
Bunkers: 58 bunkers with GA 26 sand, all hand raked. Fairway bunkers raked with Smithco with tournament rake and brushes.

Heads: Toro 690s and 780s. Plan to convert large 690 heads on tees to smaller specialized tee sprinklers. Fertigation/injection: Inject gypsum, 0-0-22 KMS, liquid fertilizers and Maxi-Green to help balance soils and nutrition.

Total staff including superintendent: 16 full time and 1 part time. Average weekly budgeted hours. Straight time 40 hours. Overtime 4 hours year round.
Leadership: assistant superintendent, Leonardo Flores; head mechanic, Lloyd McCumby; reel technician, Antonio Flores; pest control technician, Euclid Reid; irrigation technician, Ernesto Juarez.
Special circumstances: Hurricane Irene bombarded the course with 25 inches in two days. We sustained damage to the pump house, greens submerged for five days and some fairways under water for eight days, which pointed out shortcomings in our 40-year-old drainage infrastructure for the course. Working with the City Village of Golf we agreed on future modifications which are 75% complete and working well.
Communications: Contribute articles to the club newsletter on course conditions and projects. Our new Club Manager Scott Bragg wanted us to build a better team network, so this year we have been meeting monthly and we have improved our internal communications tremendously. I would recommend this for every club. This group consists of the golf pro, comptroller and course superintendent. The membership recognizes this as an asset for improving club functions.
Cultural/Fertility programs: Deep lime aerification 2 times per year on greens, tees and fairways. Top dressing of greens bi-weekly in season and following summer aerifications. Basic fertility program includes annually 8 lbs of N/M on fairways and roughs with slow release Nutralean or MESOP and 12 lbs of K/M. The Bentgrass greens are given more light but frequent applications of potassium nitrate, MKP and Coron @ .1lb of N per application so we don’t over stimulate the putting surface.

IPM Program: We have a large purple martin population on the course and they were a large part of our interest in the Audubon program plus the fact that it works. We diligently monitor the nesting and hatching of fledglings and time our pesticide applications to avoid unnecessary exposure to these birds which are sensitive to pesticide applications to avoid unnecessary exposure to these birds which are sensitive to pesticides. However, proper nest box location and maintenance are also critical as well in having a healthy and thriving purple martin population. We have established a wildlife corridor and wetland which we only rogue-out once a year. We plant a variety of native shrubs in the natural area and around the course that provide food and cover.

Equipment Inventory: Greens - 18-inch Jacobsen walk mowers 7x/week; Tees - 26-inch Jacobsen walk mowers 4x/week; Fairways - John Deere 363sx5 and Toro 5200s 3-4x/week; Roughs - Toro hydraulic 7-gang pull-behind unit. John Deere trim mower and tee and green complexes.

Communications: Contribute articles to the club newsletter on course conditions and projects. Our new Club Manager Scott Bragg wanted us to build a better team network, so this year we have been meeting monthly and we have improved our internal communications tremendously. I would recommend this for every club. This group consists of the golf pro, comptroller and course superintendent. The membership recognizes this as an asset for improving club functions.
Cultural/Fertility programs: Deep lime aerification 2 times per year on greens, tees and fairways. Top dressing of greens bi-weekly in season and following summer aerifications. Basic fertility program includes annually 8 lbs of N/M on fairways and roughs with slow release Nutralean or MESOP and 12 lbs of K/M. The Bentgrass greens are given more light but frequent applications of potassium nitrate, MKP and Coron @ .1lb of N per application so we don’t over stimulate the putting surface.

IPM Program: We have a large purple martin population on the course and they were a large part of our interest in the Audubon program plus the fact that it works. We diligently monitor the nesting and hatching of fledglings and time our pesticide applications to avoid unnecessary exposure to these birds which are sensitive to pesticides. However, proper nest box location and maintenance are also critical as well in having a healthy and thriving purple martin population. We have established a wildlife corridor and wetland which we only rogue-out once a year. We plant a variety of native shrubs in the natural area and around the course that provide food and cover.

Equipment Inventory: Greens - 18-inch Jacobsen walk mowers 7x/week; Tees - 26-inch Jacobsen walk mowers 4x/week; Fairways - John Deere 363sx5 and Toro 5200s 3-4x/week; Roughs - Toro hydraulic 7-gang pull-behind unit. John Deere trim mower and tee and green complexes.

Communications: Contribute articles to the club newsletter on course conditions and projects. Our new Club Manager Scott Bragg wanted us to build a better team network, so this year we have been meeting monthly and we have improved our internal communications tremendously. I would recommend this for every club. This group consists of the golf pro, comptroller and course superintendent. The membership recognizes this as an asset for improving club functions.
Cultural/Fertility programs: Deep lime aerification 2 times per year on greens, tees and fairways. Top dressing of greens bi-weekly in season and following summer aerifications. Basic fertility program includes annually 8 lbs of N/M on fairways and roughs with slow release Nutralean or MESOP and 12 lbs of K/M. The Bentgrass greens are given more light but frequent applications of potassium nitrate, MKP and Coron @ .1lb of N per application so we don’t over stimulate the putting surface.

IPM Program: We have a large purple martin population on the course and they were a large part of our interest in the Audubon program plus the fact that it works. We diligently monitor the nesting and hatching of fledglings and time our pesticide applications to avoid unnecessary exposure to these birds which are sensitive to pesticides. However, proper nest box location and maintenance are also critical as well in having a healthy and thriving purple martin population. We have established a wildlife corridor and wetland which we only rogue-out once a year. We plant a variety of native shrubs in the natural area and around the course that provide food and cover.

Equipment Inventory: Greens - 18-inch Jacobsen walk mowers 7x/week; Tees - 26-inch Jacobsen walk mowers 4x/week; Fairways - John Deere 363sx5 and Toro 5200s 3-4x/week; Roughs - Toro hydraulic 7-gang pull-behind unit. John Deere trim mower and tee and green complexes.

Communications: Contribute articles to the club newsletter on course conditions and projects. Our new Club Manager Scott Bragg wanted us to build a better team network, so this year we have been meeting monthly and we have improved our internal communications tremendously. I would recommend this for every club. This group consists of the golf pro, comptroller and course superintendent. The membership recognizes this as an asset for improving club functions.
Cultural/Fertility programs: Deep lime aerification 2 times per year on greens, tees and fairways. Top dressing of greens bi-weekly in season and following summer aerifications. Basic fertility program includes annually 8 lbs of N/M on fairways and roughs with slow release Nutralean or MESOP and 12 lbs of K/M. The Bentgrass greens are given more light but frequent applications of potassium nitrate, MKP and Coron @ .1lb of N per application so we don’t over stimulate the putting surface.

IPM Program: We have a large purple martin population on the course and they were a large part of our interest in the Audubon program plus the fact that it works. We diligently monitor the nesting and hatching of fledglings and time our pesticide applications to avoid unnecessary exposure to these birds which are sensitive to pesticides. However, proper nest box location and maintenance are also critical as well in having a healthy and thriving purple martin population. We have established a wildlife corridor and wetland which we only rogue-out once a year. We plant a variety of native shrubs in the natural area and around the course that provide food and cover.

Equipment Inventory: Greens - 18-inch Jacobsen walk mowers 7x/week; Tees - 26-inch Jacobsen walk mowers 4x/week; Fairways - John Deere 363sx5 and Toro 5200s 3-4x/week; Roughs - Toro hydraulic 7-gang pull-behind unit. John Deere trim mower and tee and green complexes.

Communications: Contribute articles to the club newsletter on course conditions and projects. Our new Club Manager Scott Bragg wanted us to build a better team network, so this year we have been meeting monthly and we have improved our internal communications tremendously. I would recommend this for every club. This group consists of the golf pro, comptroller and course superintendent. The membership recognizes this as an asset for improving club functions.
Cultural/Fertility programs: Deep lime aerification 2 times per year on greens, tees and fairways. Top dressing of greens bi-weekly in season and following summer aerifications. Basic fertility program includes annually 8 lbs of N/M on fairways and roughs with slow release Nutralean or MESOP and 12 lbs of K/M. The Bentgrass greens are given more light but frequent applications of potassium nitrate, MKP and Coron @ .1lb of N per application so we don’t over stimulate the putting surface.

IPM Program: We have a large purple martin population on the course and they were a large part of our interest in the Audubon program plus the fact that it works. We diligently monitor the nesting and hatching of fledglings and time our pesticide applications to avoid unnecessary exposure to these birds which are sensitive to pesticides. However, proper nest box location and maintenance are also critical as well in having a healthy and thriving purple martin population. We have established a wildlife corridor and wetland which we only rogue-out once a year. We plant a variety of native shrubs in the natural area and around the course that provide food and cover.
In fact you can get up to a full season of kicks when you use the fine-tuned, controlled-release mechanisms in Nitroform®, Organiform® and Nutralene®. Products that give plants the nitrogen needed, when it's needed, season-long.

Precise control of nitrogen promotes the balance necessary between roots and top growth to help turfgrass withstand many types of stress.

Used in a well-planned fertility program, Nitroform, Organiform and Nutralene provide for rapid turf regeneration. And their release characteristics allow minimal leaching of nitrogen into groundwater or surface water.

Effective, Safe and Environmentally Sound

Nu-Gro Technologies, Inc., 2680 Horizon Drive SE, Suite F5, Grand Rapids, MI 49546
Telephone: 1-888-370-1874 www.nugrotech.com
Nitroform, Organiform and Nutralene are registered trademarks of Nu-Gro America Corporation
For the record, there have been many anecdotal reports of success for those who have installed the ESP units on their courses. It takes perseverance and commitment to monitor and document the results over time to establish proof of performance. In the meantime, Klontz continues to inject gypsum, 0-0-22 KMS, liquid fertilizers and Maxi-Greens to keep up necessary soil nutrient levels.

For all his belief and commitment to the Audubon program, Klontz had a reality check for those who undertake to naturalize their golf courses. Klontz said, "I don't care what anyone says about natural areas, there's no such thing as 'no maintenance.' There is some cost involved at some point in time - from clearing and installation to the level of maintenance mandated by your club. Some folks are willing to let these areas go 'natural' and that means some weeds are going to get in there. Generally, I'd say members don't want to see a prominent area that's not tended to in some way, so there's going to be ongoing labor and maybe some herbicide costs."

"People need to realize it is a different kind of investment. They are investing in wildlife preservation, water conservation and water quality, course beautification, fewer chemicals and less fertilizer use, but it does still take dollars to control
Overall loyalty, longevity and low turnover are hallmarks of the Country Club of Florida staff. Thomas Mikel has been with CCF for more than 20 years. Great continuity within the staff has helped produce consistent high quality playing conditions. This performance is appreciated and respected by the club membership. At the end of the season our employees are identified and congratulated at the annual meeting, and presented with 5-, 10-, 15- and 20-year service pins.

Some of our key dedicated employees:

Leonardo Flores is the assistant superintendent and has been Jeff’s right-hand man for 18 years. His work ethic and golf course construction skills have been evident in every project undertaken at the club.

Antonio Flores has been with CCF for 16 years and for the last eight years he has served as the assistant mechanic in charge of preparing our mowers. He is an outstanding master of his trade. Euclid Reid has been our licensed pesticide applicator for 12 years and has also been employed at CCF for 16 years.

Lloyd McCumby is not merely a “jack” but a “master” of all trades. He has been the head mechanic for six years and his multi-talented skills, including carpentry, have been a tremendous asset to the club. Lloyd is a true professional and is well respected by the membership and staff alike.

The message from the whole staff is that they have a team atmosphere dedicated to quality and they are proud to be employed at the County Club of Florida.

Assistant Superintendent Leonardo Flores stands in one of the bunkers he helped to rebuild and restore to original design. Photo by Joel Jackson.

Building waterfalls is just one of many skills that falls under Head Mechanic Lloyd McCumby’s multifaceted job description. Photo by Joel Jackson.
weeds and maintain bird houses and feeding stations, or replenish pine straw and mulch.”

Klontz’s environmental approach to managing CCF came from his deep desire to make the world a better place to live. He has tackled the challenge to modify his practices and implement sound programs with enthusiasm and inspiration from his family, club members and staff. His attitude is best summarized by his comments at the recognition ceremony held to commemorate the full ACSP certification of CCF.

“At the County Club of Florida, it has always been our goal to provide the best possible course conditioning and quality for our members. Participation in the Audubon program has allowed us to further expand management of the entire site and enhance the environmental qualities of the property. The Country Club of Florida believes in the Audubon program. We have made sure that our programs uphold the Audubon standards and also enhance The Village environment. Our members are proud of the efforts that have been under way to enhance the golf course wildlife.”
Enhanced Calcium Silicate
Building Better Turf

28% Silica 19% Calcium 5% Magnesium 8% Sulfer

Increases Turgor Pressure
Strengthens and Toughens Plant for Improved Stress Tolerances

Increases Phosphorous Uptake
Effectuates Greater Root Mass

Increases Disease Resistance
Augments Natural Defenses

Excellent Liming Source
Provides 75% of the Liming Value of Dolomite

Calcium Silicate Corporation
Lake Harbor, Florida • General Information: 863-902-0217 • Sales: 863-651-7133

Winter 2002
Flowers, fruits and berries attract birds and butterflies to the natural areas.

The Oak Grove Wildlife corridor has a mulched path for members and residents to use to commune with nature.

All the holes at CCF are named after birds. The tee signs are laser cut redwood taken from original James J. Audubon paintings.

One of 45 purple martin houses on the course. This one is in the Island Wildlife Corridor, a man made wetland and natural area. Photos by Joel Jackson.
TranXit™ GTA HERBICIDE
The New Direction in Overseeding Management

• TranXit is specially formulated for Southern turf markets. • TranXit contains the active ingredient rimsulfuron, which provides both preemergence and postemergence performance. • TranXit has three applications for Poa control:
✓ fall application in advance of overseeding ✓ in non-overseeded bermudagrass ✓ as a spring transition aid in overseeded turf grasses • TranXit delivers up to 90% control of Poa annua for up to six months. • TranXit is non-injurious to bermudagrass, and does not cause delayed green-up. • TranXit is effective at low rates and comes with an easy-to-use measuring device.

Griffin L.L.C.
www.griffinllc.com
1-800-237-1854

Always read and follow label directions. © 2001 Griffin L.L.C. TranXit is a trademark of Griffin L.L.C. 6038-01-11/01
Professional Certification

TOP TEN REASONS TO SEEK IT OUT

With the passage of the GCSAA Professional Development Initiative, superintendents will be focusing on meeting a set of performance standards to achieve and maintain Class A Superintendent status. Once the self-assessment program is in place, superintendents may want to consider taking the next step - certification. Here’s another association’s look at why certified professional status has value. It is applicable to golf course superintendents as well.

Everyone knows that M.D. following an individual’s name means he or she is a medical doctor; and CPA signifies the individual has met standards and fulfilled requirements to be a certified public accountant. More than a few cryptic initials following a name indicates that thousands of associations utilize professional certification to recognize individuals for their dedication to their chosen career and their ability to perform to set standards. Ask a certified professional “why,” and they’ll tell you that the certification process is one of the single most important steps you can make in career development. Here are the top ten reasons you should consider professional certification:

1. Demonstrates your commitment to the profession.

Receiving your certification shows your peers, supervisors and, in turn the general public your commitment to your chosen career and your ability to perform to set standards. Since university degrees can no longer represent the full measure of professional knowledge and competence in today’s evolving job market, certification sets you apart as a leader in the profession.

2. Enhances the profession’s image. Certification programs seek to grow, promote and develop certified professionals who can stand “out in front” as examples of excellence in the industry or field.

3. Reflects achievement.

A certified professional has displayed excellence in his or her field and fulfilled a set of standards or requirements.


Certification creates a standard for the profession, complete with performance standards, ethics and career paths. You’ll begin to define yourself beyond a job description or academic level. You’ll see yourself as a certified professional who can control his or her own professional destiny and find a deep sense of personal satisfaction.

5. Establishes professional credentials.

Since it recognizes your individual accomplishments, certification stands above your resume, serving as an impartial third-party endorsement to your knowledge and experience. When the industry looks for individuals qualified to perform services, they seek individuals like you who have achieved certification.

6. Improves career opportunities and advancement.

Certification gives you the “edge” when being considered for a promotion or other career opportunities. Certification clearly indemnifies you as an employee who can adapt to changes in work, technology, business practices and innovation.

7. Preparation for greater on-the-job responsibilities.

Since certification is a voluntary professional commitment to an industry or field of knowledge, it is a clear indicator of your willingness to invest in your own professional development. Professionals are aware of the constantly changing environment around their profession, and possess the needed tools to anticipate and respond to change.

8. Provides for greater earnings potential.

As a certified professional, you can expect many benefits, but for today’s down-sized, right-sized, topsy-turvy world, salary increases speak for themselves.

9. Improves skills and knowledge.

Ideally, achieving certification shows your individual competence by confirming proficiency and career involvement and assuring knowledge.

10. Offers greater professional recognition from peers.

---

**Improved Speed, Consistency And Overall Playability**

Aggressive management practices can compromise the health, quality and playability of traditional bermudagrass varieties. Tifdwarf, Tifgreen, and even some of the new superdwarf varieties become stressed when subjected to reduced mowing height, frequent verticutting, increased topdressing and minimal irrigation. TifEagle, on the other hand, was created to withstand just this kind of abuse. In test after test, TifEagle’s quality rated superior to Tifdwarf and other warm-season grasses. Improve the speed, consistency and playability of your greens. Insist on TifEagle.

**TifEagle for Greens**

To Order Your Certified TifEagle Sod or Sprigs, Contact One of These Licensed TifEagle Growers

South Florida Grassing, Inc - Hobe Sound  
561 546-4191

Emerald Island Turf, Inc. - Punta Gorda  
941 637-4770

---

**Tom Burrows, Consulting**

Agronomist/Turfgrass Specialist  
Independent Consulting using “Brookside Laboratory”

**Greens Reconstruction**
- Soil Physical Analysis
- USGA Approved Testing
- Analytical Service
- Recommendations
- Specifications for Contractor Bidding

**Soil Testing**
- Greens, Tees, Fairways
- Analytical Report and Soil Fertility Recommendations

**Water Testing**
- Report & Recommendations

**In the business 40 years**

Jensen Beach, Florida  
561-692-1221 cell: 561-485-3776
and

TORO

present...
Remember all the times you said there had to be a better way?

You were right.
Revolutionary new spray vehicles offering absolute flow rate precision — regardless of speed.

Precise application rate is provided by exclusive Toro® Spray Pro™ proportional drive spray control system.

Simple operation minimizes reliance on operator expertise.

Continuous leak-free performance is ensured with the enhanced plumbing system and a reliable dual-diaphragm pump.

Total operator comfort is provided by the smooth-riding, front torsion joint suspension.

1200 This rugged, economical performer utilizes a manual spray control system with levers to control boom spray on/off and a dial for flow rate adjustment. Includes the Spray Pro system.

1250 The value-added 1250 incorporates an electronic spray control system with rocker switches to control boom spray on/off and flow rate adjustment. Includes the Spray Pro system.
RELIABLE PERFORMANCE
The Multi Pro 1200 and 1250 are built for years of reliable service. The enhanced plumbing system features o-ring fittings and a reliable dual-diaphragm pump for continuous leak-free performance. The system even resists damage if applicant runs dry while spraying.

OPERATOR FRIENDLY
Both Multi Pro models were designed with the operator's comfort in mind. They include a smooth-riding, front torsion joint suspension, comfortable high back seat and power steering. The outfront operator's position allows for superior visibility and easier entry/exit.

NOZZLE
FOAM MARKING KIT
ELECTRIC BOOM LIFT KIT
- Operator enclosure
- Electric hose reel
- Sprayer protection system
- 2-Post ROPS (Roll-Over Protection Structure)
- Enclosed walk-behind boom
- Spray gun kit
**BREAKTHROUGH** Spray vehicles have always demanded the most experienced operators. Until today.

Introducing the new Toro® Multi Pro 1200 and 1250 — spray vehicles combining simpler calibration, greater precision and improved ease-of-use.

**KEY FEATURES** The ergonomically designed cockpit includes fingertip controls and a foot-controlled master on-off switch. The rugged design features four wheel brakes, a new CVT automatic-type transmission with three forward speed ranges and reverse, and a dependable Kohler® 20 hp engine. Both the Multi Pro 1200 and 1250 work well with a broad range of nozzle sizes for application of any rate at virtually any speed. A convenient, electro-magnetic, accelerator locking device allows for easy use in areas requiring hand-gun spraying.
**EASE OF USE**

The innovative Spray Pro system not only increases precision, it also minimizes reliance on operator expertise. Slow down and the flow rate slows proportionately. Speed up and the rate automatically increases. It's that easy — even for inexperienced operators.

**PRECISE APPLICATION**

The Spray Pro proportional drive spray control system offers precision and ease of use you won't find with any other spray control system on the market today. Uniquely tied to the drive wheels, it automatically, instantaneously and proportionally adjusts to changes in ground speed to ensure constant application rate.

**ACCESSORIES** to make you even more effective.

- **ENCLOSED BOOM**
- **STANDARD BOOM**
- **SONIC BOOM LIFT KIT**
- **BOOMLESS**
**MULTI PRO® 1200 & 1250**

**SPECIFICATIONS**

**MULTI PRO® 1200** (model 41107) & **MULTI PRO® 1250** (model 41106)

- **Vehicle**: 4-wheel, rear wheel drive, front steer, single operator turf sprayer.
- **Engine**: 20 hp Kohler® V-Twin horizontal shafts governed to 3,350 rpm, w/30 amp alternator, accel. pump carburetor.
- **Battery**: 12 volt with 370 cold cranking amps @ 0°F (-18°C).
- **Fuel Capacity**: 6 gallon (23 liters).
- **Front Suspension**: Fully independent rubber torsion swing arm.
- **Rear Suspension**: Rigid.
- **Steering**: Hydraulic power, center pivot linkage, 60° turning angle 96" (2.4 m) inside turning radius.
- **Tires**: Front: (2) 18 x 9.5-8 slick. Rear: (2) 24 x 13-12 Multi-Trac.
- **Brakes**: 4-wheel hydraulic drum type with dual chamber master cylinder.
- **Lights**: Twin halogen headlights.
- **Transmission**: Integrated transaxle with 3 forward speed ranges and reverse.
- **Ground Speed**: 1st speed range: 0-3.1 mph (0-4.9 km/h). 2nd speed range: 0-5.0 mph (0-8 km/h). 3rd speed range: 0-11.0 mph (0-17.6 km/h).
- **Clutch**: Centrifugally engaged variable belt drive (CVT).
- **Spray Booms (optional)**: Choice of 18.5', 3-section open boom or enclosed boom system. Open boom breaks away fore and aft. Raise vertically or cross for storage and transportation. Optional electric boom lift and sonic boom system adjusts boom height to any angle.
- **Spray Nozzles**: Color coded, stainless steel, quick disconnect with diaphragm check valves, drift reduction mounted on triple nozzle bodies.
- **Sprayer Tank**: 160 gallon (605 liter) polyethylene tank, inductive agitation. Low profile w/large 7 gallon (27 liter) deep sump. Translucent w/fill level gauge.
- **Spray Pump**: Dual diaphragm pump, proportional ground speed control system. 30 gallon (11.4 liter) per minute output. Capacity range up to 250 (15 bar) psi max.
- **Spray Controls**: Electronic switches on Multi Pro 1250. Manual levers and dial on Multi Pro 1200.
- **Spray Monitor**: Spray Pro™ system, multi-function with liquid crystal display. Back lit for late evening/early morning operation.

<table>
<thead>
<tr>
<th>Base Weight</th>
<th>Maximum Gross Vehicle Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base unit</td>
<td>3,500 lbs. (1,589 kg)</td>
</tr>
<tr>
<td>With standard spray system and operator</td>
<td>1,575 lbs. (715 kg)</td>
</tr>
<tr>
<td>Dry</td>
<td>2,875 lbs. (1,305 kg)</td>
</tr>
<tr>
<td>Full</td>
<td>3,100 lbs. (1,409 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Measurements (with spray system)</th>
<th>Wheelbase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Width</td>
<td>56&quot; (142 cm)</td>
</tr>
<tr>
<td>Overall Length</td>
<td>120&quot; (305 cm)</td>
</tr>
<tr>
<td>Height</td>
<td>43&quot; (109 cm)</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>4.5&quot; (11.4 cm)</td>
</tr>
<tr>
<td></td>
<td>62&quot; (157 cm)</td>
</tr>
</tbody>
</table>

**Measurements**

<table>
<thead>
<tr>
<th>Warranty</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two year limited warranty. Refer to operator’s manual for details.</td>
<td>This product complies with ANSI 56.8 specifications.</td>
</tr>
</tbody>
</table>
As a certified professional you can expect increased recognition from your peers for taking that extra step in your professional development. Check into certification soon. It will give your career and professional life a real boost.

Credit: New Hampshire GC SA Newsletter. This article is reprinted with permission from the Grounds Management Forum, the official online forum of the Professional Grounds Management Society.

It's All About Attitude

Superintendents have a tendency to get battered around pretty good sometimes, but I have always tried to keep things in balance so I can maintain a positive outlook at work.

Employees are the backbone of our operation. They either help us excel to the next level or they can keep us at a mediocre level. Being a firm believer in having a good attitude, I'd like to share with you a story about the best employee I ever had and how we came together.

I had just started a new position at Halifax Plantation and we were in need of some good employees to get things turned around. On my third day of work I was sitting in my office and I noticed a fellow walking around the perimeter of the maintenance shop. He would stop and look over our equipment and mumble something to himself and move on.

I went out to see what was going on and after introducing ourselves I invited him into the office. He told me he was looking for work and he'd like to come to work here and that he could operate every piece of equipment in the shop, and probably better than anyone I had on the crew.

That was pretty cocky I thought and I asked him about his work history and background. I quickly figured out he probably was the real McCoy. I needed help, so what the heck, I've got nothing to lose. So I asked him how much I would have to pay for someone with all this talent and experience.

He said, "I'll tell you what I'll do. I'll work for you for one week and do whatever you need done. After the week is over we can discuss hourly wage and benefits. If you don't like my work just be honest with me and I'll be gone. In fact you won't even have to pay me.

Well, he took me by surprise with his matter-of-fact offer, but it only took me about ten seconds to decide to give him a try. I told him to be in the next day at 6 a.m. ready for work.

There are many days when I think back on that encounter. It helps me to balance out all those employee problems that happen at the other end of the attitude spectrum. What a blessing it was to have an employee walk in the door with the right attitude, a working knowledge of the business, a willingness to please, and an all around team player.

I share this with you because I hope that everyone in our business could have the pleasure of having such a person on their crew. Also, it challenges me personally to check my own attitude every morning before arriving at work.

Editor's Note: We lost Jim Martello, superintendent at Halifax Plantation in Ormond Beach, this year to a battle with cancer. While Jim was home trying to win the fight against the disease, he wrote this article to share a reminder that with all the negatives we sometimes face in this business, there are always positive things that happen to us and we need to remember them during trying times.

Jim Martello, right, had a good attitude about golf also, and was a perennial contender in golf outings. Jim is seen here with Kevin Downing, left, and Buck Buckner playing a round at the media opening of The Slammer and The Squire GC at the World Golf Village. Photo by Joel Jackson.

Jim Martello

For more information about X-1 R’s complete line of turf products, or to locate a distributor near you, call the X-1 R Corporation at 386.271.7000 800.747.4917 or 888.246.8873

Visit our website: www.x1r.com
You should know the story by now.

Most of the earth's water is sea water. Some say about 97 percent. Another 1-2 percent is tied up in the polar ice caps. That leaves 1-2 percent of relatively easily accessible fresh water for all of our needs. Agreeing on the priority of those needs is the vexing question facing water-management districts and local authorities, and as we know, golf is low on their list. While playing golf may be a game, managing turf and operating a golf facility is a business... a big business in Florida.

Golf is in one of the lowest water-consumption groups tracked by water management districts. From actual consumption figures I have been able to find on web sites, the recreational/aesthetic use of water generally accounts for only 3-5 percent of the total daily consumption. Keep in mind we're just part of that group so the actual number for golf is lower. National figures compiled by the Irrigation Association suggest golf's water consumption to be around 1.5 percent. Combine that with consumptive-use permits (CUPs), the need to have good playing conditions, and improved irrigation technology and we are some of the best water managers around while being one of the most regulated. All because we are so visible.

It has been my experience to grow up in golf-course maintenance from the late 1950s to the present. I have operated a quick-coupler manual system as a teenager making my rounds during course grow-in. Then at Disney, I got to experience the Binar electrical system, which added lots of flexibility, but those decoder blocks in the ground were great lightning rods. Then I had a Buckner hydraulic system with a rudimentary central control panel. Most of the settings and adjustments were made at the satellite boxes, which made for a lot of trips around the course to make last-minute changes due to changes in the weather or the superintendent's mind.

A Toro Varitime II hydraulic system at Isleworth didn't eliminate the satellite box stops, but the master control board did allow multiple programming of fixed run-time cycles of 4 minutes, 8 minutes, etc. Finally in 1991, I got to experience the Rainbird Maxi V system back at Disney, and computerized control systems have been evolving ever since. They certainly offer a turf manager a lot of flexibility to prescribe water for small areas on the course to prevent wet and dry spots...if the system has been designed properly and you have single-head control.

Besides computerized control systems, the next best tool is a well designed delivery system. That means that the system needs to have correct pipe size, proper head spacing and location and a good isolation-valve network to shut down zones with leaks without shutting down the whole course. There should also be a network of manual quick-couple valves for hand-watering greens and tees and maybe even fairway bunker complexes. Many new courses are installing double-head systems around the greens so that the putting surface can be watered independently from the surrounding slopes, which may be built out of less porous soil and require less water.

Along the way, my water sources were direct pumping from a surface water lake fed by an artesian well, pumping directly from a deep well, pumping from a lake recharged by a deep well and reclaimed water piped into the mainline and pressurized with a booster pump. In my career I never had to contend with water restrictions like we have seen lately, but the goal of turf managers is always to use water wisely to produce the healthiest turf and best playing conditions. Lately we have been learning to do more with less.

Even reclaimed water is not a panacea. Utilities have been prone to see the gold in them 'thar gallons and outrageous rate hikes of 350 percent have torpedoed course maintenance budgets. Local authorities seem to forget that using golf and landscape irrigation as community spray fields is providing them with a service which is saving them disposal costs.

As we have had to operate under water restrictions the past few years due to the persistent drought, two things have been abundantly clear to superintendents. First, they learned they could manage their golf courses with less water, and second, they could not effectively manage them by following the simplistic but totally ineffective method of restricting irrigation by the day of the week.
You can always count on an old friend.

We're like an old friend, bringing you the level of quality products and service that you have come to rely on. The Harrell family started this business sixty years ago by meeting customer needs, personally. That's the secret of our success, and we're not about to stop now!

**Fertilizers, chemicals, grass seed and accessories.**
If it helps grass and ornamentals grow, Harrell's has what you need. Every bag of fertilizer, chemical and seed we offer is the best quality available.

**Custom-blended, superior fertilizers.**
At Harrell's we use cutting-edge technology, top ingredients and expertise to custom build the fertilizer you need, based on your specific soil and growing conditions.

Harrell's means honesty, integrity and trust. If we say it, we mean it and you can count on it. Harrell's offers the kind of world-class service that sets us apart from the other guys. Call your personal Harrell's rep today.

Serving world-class golf properties, professional sports facilities, nurseries & landscape maintenance operations with six decades of growing excellence.

For reliability you can trust, call toll free 1-800-282-8007

Harrell's
Custom Fertilizers Worldwide
The only thing dictated by day-of-the-week watering schedules is when you water, not how much you water. Some water district officials have admitted that this method did not really save much water. Instead it forced water users to overwater on specific days to try and keep the root zone moist until the next scheduled irrigation. Overwatering brings on another set of problems including poor playing conditions and poor turf health often requiring application of more chemicals to treat weeds and disease.

For those whose pumping capacity was limited or who had sandy soils, it encouraged - or rather forced - them to water off-schedule just to keep their turf alive and functioning. A rule or law that forces someone or a company to break the rules just to survive is plainly a bad rule.

I heard some superintendents document-ed their reduction in overall water use to cover themselves, but they watered when they had to, not on the arbitrary day of the week. They met the intent of the law, water conservation, in spades, but they violated the letter of the law which is flawed by not addressing practical agronomy or horticultural requirements. Their message is: We can and will cut on specific days to try and keep the root zone moist until the next scheduled irrigation.

For those whose pumping capacity was limited or who had sandy soils, it encouraged - or rather forced - them to water off-schedule just to keep their turf alive and functioning. A rule or law that forces someone or a company to break the rules just to survive is plainly a bad rule.

I heard some superintendents document-ed their reduction in overall water use to cover themselves, but they watered when they had to, not on the arbitrary day of the week. They met the intent of the law, water conservation, in spades, but they violated the letter of the law which is flawed by not addressing practical agronomy or horticultural requirements. Their message is: We can and will cut back on amounts used during droughts, but let us apply the water when we need it. Enforcement is possible through pumping reports.

To the credit of many superintendents and the water management districts, they have made good strides in working out practical solutions to these problems. This is a never-ending process and it is critical that superintendents keep their owners advised of the issues and solicit their help in educating politicians, water management districts and the general public about golf’s true impact on the community.

**TALE OF TWO COURSES**

**High & Dry or Low & Wet, Use Common Sense**

The Highlands Reserve Golf Course is located in northeast Polk County just off US Hwy 27 on the sandy ridge that runs from Ocala to Sebring, and it’s also near the eastern boundary of the Southwest Florida Water Management District. Superintendent Dave Datema, CGCS recently moved over from Disney and arrived in time to feel the full effects of the drought on this high and dry layout. Dave’s current water source is ground water, but a reclaimed water line is being installed along US 27 from Haines City to the intersection of U.S. Hwy 192. The amount of reclaimed water Dave will have to use is unknown at this time, but hopefully he will be able to pump less ground water in the future.

Meanwhile over in Winter Park, Stuart Leventhal’s Interlachen Country Club was built on an old peat bog that wasn’t suitable for residential development. Interlachen is located right next door to the local water treatment plant and so Interlachen irrigates totally with reclaimed water, but does have a backup well in case of emergencies. Drainage and percolation are polar opposites for the two courses and yet the management of the irrigation is based on the same concept - common sense.

Highlands Reserve drains so quickly that, during tropical storm Gabrielle last August, Datema’s crew was mowing fairways when the eye of the storm passed over. That was after six inches of rain the previous night and morning. Over at Interlachen when summer rains kick in, Leventhal may not irrigate the fairways for four to six weeks. In fact they often have to go out and trim the grass back off the heads from lack of use.

Under normal conditions Highlands Reserve will pump 350,000 - 375,000 gallons per irrigation cycle and Interlachen will pump an average of 155,000 gallons. Both superintendents are addressing the needs of the turf and maintaining good playing conditions, and both use weather forecasting data to adjust their nightly watering to reflect the constantly changing conditions.

With the sandy conditions at Highlands Reserve, Datema has had to amend his native-soil greens to slow down the water percolation since there is no perched water table effect.

"While the greens drain super, I cannot..."

**SHOW AN OLD COURSE NEW TRICKS**

The University of Florida recently renovated its golf course, and it needed a high-quality fertilizer to help get its turf into shape. The obvious choice was *GreenEdge*.

Unlike other organic fertilizers, *GreenEdge*® contains slow-release potassium to enhance root growth and increase stress tolerance. It also acts as a bioactivator to increase beneficial microbial activity.

*GreenEdge*®’s unique multi-release mechanism provides both initial and extended release of nutrients through hydrolysis and microbial degradation over an 8-12 week period. It also minimizes environmental impact by eliminating leaching and runoff.

Give *GreenEdge*® a call at toll free 877-GREEN30 and let our products work wonders for your course.
keep the root zone moist without daily watering,” says Datema. “This past spring I aerified with 1/2-inch tines on 2x2 spacing, removed the cores and topdressed with a 70/30 sand and peat mix and some granular LescoFlow wetting agent. We dragged that into the holes and found we have helped some of our chronic hot spots to disappear and maintain better turf cover.”

Over at Interlachen, Leventhal has no real option to amend the heavy soil under the fairways. His salvation has been an upgraded irrigation control system.

“Going to the Rainbird Cirrus control system is the best investment we have made,” Leventhal says. “With the precise timing control of the computer, we have been able to micromanage our heads and regulate the playing conditions much better than the old electro-mechanical dials which could be off minutes plus or minus.”

Both superintendents put irrigation monitoring as a high daily priority, and the superintendent, assistant or irrigation technician inspect, monitor and make changes as needed. To the trained eye, uneven dew patterns in the morning reveal the onset of dry conditions or malfunctioning sprinklers or maybe even a zone or system failure. Wet spots are clues to leaks and stack heads. Later in the day foot printing (collapsed blades) and gray colored turf are sure signs that wilt conditions are setting in.

Special projects, meetings, repairs etc can take the primary irrigation observers off task on

Computer-Exact Custom Mixes. Every Order. Every Time.

- All Loads Scaled
- Soil Analysis Available
- Next Day Service
- Volume Orders

Visit our website at www.golfAg.com!

Traps Installed to Spec.

Golf Agronomics meets all your top dressing needs with our ability to customize your mix with a variety of soil amendments including:
- Dolomite
- Hi-Cal
- Charcoal
- Wetting Agents
- Humic Acid
- Minor Elements
- Rock Phosphate
- Gypsum
- Customer Products

GOLF AGRONOMICS SUPPLY & HANDLING
Serving all of Florida

(800) 626-1359
(941) 955-4690 Fax
any given day, so observation and monitoring is a
team effort by the whole staff.

The person who cuts cups is also
trained to report wet and dry conditions in the soil
plugs taken when moving hole locations on the
greens. Other crew members, especially equipment
operators, are trained to report damaged heads and
wet or dry areas.

Both superintendents employ wetting
agents to help the plants take up water more effi-
ciently. At Interlachen the heavy soils can be
induced to percolate better and at Highland Reserve
they help the quick-draining soil from becoming
hydrophobic.

Datema says, "We make a wall-to-wall
wetting agent application through our fertigation
system about once per week. We also make appli-
cations to greens and tees using our portable
sprayer. In fact, if rain is forecast we specifically
time those applications to help the rainfall penetrate
and not just run off."

While Interlachen is not impacted by
water restrictions with its reclaimed water source,
Highlands Reserve is in a more precarious position.

"I understand the intent of water restric-
tions during drought conditions, and I make sure
we conserve water," Datema says. "When directed
or asked to cut back, I cut back, but in all honesty
in the performance of my job to manage our turf-
grass, I have to fudge on the day-of-the-week
schedules, but I feel like I am within the rules that
allow for watering to prevent heat stress.

"We normally run 20 minutes per fair-
way head per night, assuming no rainfall help. With
restrictions in force, I can cut that time by 66 per-
cent to 7 minutes per station and thus save water,
which is in keeping with the intent of the restric-
tions. But I cannot keep the root zone moist in this
sandy profile by simply cranking up the time on the
fairway heads and only watering one or two days
per week.

"The soil drains so fast I'm just wast-
ing the water. It makes more sense to put out less
water overall, but more often when the plant needs
it and can use it. Compounding the problem is our
high nematode counts in this old orange grove
location. They keep the grass roots short so they
can't take up more water even if I increased the
times."

Both superintendents agree that people
in the industry have gotten more water-wise over
the years especially with the advancements in the
technology. As Datema says, "There are abusers in
every business and I'm sure there are some folks
out there who still overwater out of habit or igno-
rance or a fear that using less will jeopardize their
jobs. But most superintendents have tried to live
within reason while respecting the intent of restric-
tions."

One of the best examples of being
water-wise was observed when I visited Olde
Hickory C.C. last year for a cover story. Instead of
maxing out his run times during periods of no
restrictions, John Stach knew that restrictions
would invariably return, so he kept his turf hard-
ened off and learned to produce good playing con-
ditions with less water. This is a lesson every
superintendent needs to learn in the coming days
of water shortages whether they are real or politi-
cal.

To that end, every superintendent needs
to discuss his current irrigation management pro-
gram with his/her ownership. The owners need to
take responsibility for how the superintendent pro-
ceeds, especially during water restrictions. It is not
good stewardship or responsible leadership to
merely tell a superintendent, "Keep it green or
else." During droughts, club owners and members
need to expect firmer, faster and temporarily off-
color turf. Each club should make every attempt to
reduce overall water use during droughts and docu-
ment the savings of water.

As Datema puts it, "The basic tools of
turf management have always been irrigation, cul-
tural practices and chemicals and fertilizers. When
control of our most important tool, water, is taken
out of our hands, it's like trying to manage the
course with one arm tied behind your back. We
need a good, common-sense approach to water
conservation and not some convenient arbitrary
rules that don't address the root of the problem."

Joel Jackson, CGCS
Bite Back.

If mole crickets are taking a bite out of your turf, turn revolutionary new Nematac™ S on 'em. There's nothing else like it. Nothing lasts longer or is safer. Nematac S consists of insect-parasitic nematodes, genetically predisposed to seek out and devour tawny and southern mole crickets. Simply mix Nematac S with water, apply with regular spray equipment and then irrigate. The aggressive nematodes will hunt out and penetrate adult and late instar mole crickets, releasing bacteria that quickly kill their hosts. Then the nematodes reproduce within the carcasses, unleashing a new generation of predators, ready to attack. Nematac S requires no EPA restrictions, no re-entry interval, and produces absolutely no hazardous residue. Produced by Becker Underwood and tested at the University of Florida, use Nematac S with confidence and peace of mind.

Nematac S means persistent mole cricket protection.
Contact your distributor for more information.

www.beckerunderwood.com
A 17-YEAR SAGA

Our Water is Gray, but Our Grass Is Green

Our water source at Winter Pines Golf Club since 1984 has been 100 percent reclaimed water, and our main line is connected directly to the Winter Park Estates Treatment Plant approximately two miles away. We are connected from the city's 24-inch mainline by a 15-inch line and then a 10-inch line that runs to the center of the golf course and connects to the course's 6-inch mainline pipe. We share this reclaimed water source with Interlachen C.C. and several of the city's park and recreation areas.

The pump station is located at the treatment plant and maintained by the city. We have 120 psi static pressure in the pipe 24 hours a day which delivers 60 psi at the sprinkler heads. The city maintains the main line and we take care of all other lines on the property. We have no back-up system, so we are dependent on the city for having the system up and going all the time, which is part of the contract. They have been excellent at supplying us with water for the past 17 years.

We have a contract to use around 150,000 gallons a day and to pay for the electricity to pump it to us. However, we are not required to pump the water if we don't need it on rainy days, and we can exceed that amount if we are in dry period or have to water in pesticide or fertilizer applications.

The overall water quality has been good, but we usually make 1-2 applications of gypsum during dry periods to combat some of the high sodium and bicarbonates in the water until we get some good rains to help flush them out of the root zone. A little extra spiking and slicing also helps minimize any water quality problems on our weaker greens.

Our control system consists of nine Griswold 24-station satellite panels located around the course. To aid in cold and weather protection, each one is mounted inside a separate locked cabinet, which helps provide insulation from heat and cold. We also have Griswold electric valves in the ground which control anywhere from one to five heads each, depending on their location. We don't have a central controller, so each satellite is adjusted daily to meet the conditions or shut off manually when it rains. A normal night irrigation cycle takes six to eight hours to complete.

Inspection of green and tee head operation is usually done twice per week by using a syringe cycle to check proper head rotation and nozzle performance. Fairway heads are checked while syringing off the dew ahead of the fairway mower on certain holes with heavy growth. Any repair work is done by me or the assistant superintendent.

We like to use Rainbird 51D impact sprinklers on the greens and tees so if we need to syringe a localized dry spot, we can just hold the impact arm and aim the head. It saves dragging a hose when time is a factor on a busy public course. We don't have a lot of quick coupler valves anyway.

Most of the fairways have double-row coverage with Rainbird 81B, Thompson 188s or Legacy 90s. We have part circle Rainbird 47Ds and Legacy G95 part circle heads along lake banks, property lines and at the clubhouse area.

The fertigation system was taken out when the old pump was removed and we hooked up to the city's reclaimed water line. All foliar fertilizers, wetting agents and growth regulators are applied with our Smithco 160 Spray Star. Primo (PGR) is used on some of our wetter fairways and the driving range during the summer. Wetting agents are applied as needed on greens, tees and fairways to help moisture penetration along with frequent slicing of chronic problem areas.

As with any older system, we are constantly tweaking the design by moving or adding heads to get better, more efficient coverage to help grow healthier turf.

Joe Ondo, CGCS
Joe Ondo, CGCS is superintendent, Winter Pines GC; 407-657-7565; fax 407-671-3420.

Caterpillar® Skid Steer Loaders are as easy to operate as they are productive. Cat's unique low-effort, pilot-operated joystick controls require less time on the throttle, which reduces operator fatigue while increasing fuel efficiency.

Now – for a limited time only – you can own a Skid Steer for as little as $535.00 a month!*
Cover More Territory
Without Leaving Tracks Behind.

Introducing the industry's lightest 7-gang mowers. Weighing in at roughly 750 pounds less than other 7-gang mowers, the Jacobsen LF-4675 and LF-4677 models are the lightest available. Plus, you get a legendary Jake cut that stretches across nearly 140 inches — about 40% wider than with a 5-gang mower. While these 7-gangs may be new, their 22-inch cutting reels and chassis are not. In fact, both models are built on the same time-tested chassis as our popular LF-3400 and LF-3800 fairway mowers, so you’ll get the same reliable performance. Not to mention, those fairways will be cross-cut in no time — without the worry of leaving tire tracks behind. For more information or a free demonstration, come in or call today.

Tresca Turf & Tractor:
4827 Philips Hwy., Jacksonville, FL 32207
904-448-8070
2300 Silver Star Rd., Orlando, FL 32804
407-291-1717
www.tresca.com

Kilpatrick Turf Equipment:
7700 High Ridge Rd., Boynton Beach, FL 33426
561-533-1450
1620 Trade Center Way, Naples, FL 34109
941-594-1958
www.kilpatrickco.com

Golf Ventures:
15790-1A Chief Ct., Fort Myers, FL 33912
800-481-8911
2101 E. Edgewood Dr., Lakeland, FL 33803
800-330-8874
www.golf-venture.com
Elevate to Irrigate Temporary Nursery

Eric von Hofen, director of agronomy at Calusa Pines Golf Club unquestionably had his hands full when he accepted his current position at the recently opened Hurdzan/Fry-designed golf course in Naples. The golf course, which is certain to receive accolades for its dramatic design, will definitely also catch the eye of many for the extensive landscape that complements the 18-hole layout. According to von Hofen, over a million dollars of landscape was installed during the construction of the golf course, for which he was responsible for the placement, and survival. The species that were planted included live oaks, cabbage palms, slash pines, palmettos, and hundreds of thousands ornamental grasses, all of which blend in nicely to the existing flora giving the perception that the course has been in place much longer than it has.

With the ownership of Calusa Pines providing the extensive funds that were needed to construct the golf course and the facilities, it was expected for all parties involved to be diligent and not allow any waste to occur. To help assure the survival of the vast quantity of containerized plant material, von Hofen directed the construction of a temporary holding area where all landscape material would be delivered... and receive immediate irrigation.

A simple, inexpensive quarter-turn ball valve controls water flow to each sprinkler. Total cost of temporary irrigation system was less than $100 to protect huge investment in plant material. Photo by Darren Davis.

To assure adequate moisture would be provided to each and every plant that was delivered, a temporary overhead irrigation system was installed. To accomplish this, six pine trees that recently had been discarded from the golf course clearing process were limbed up and cut to a length of approximately 35 feet. These straight tree trunks were then buried to a depth of ten feet, leaving approximately 25 feet of exposed trunk. A two-inch PVC line was attached on the side of each trunk leading to the top where a full circle Toro 670 irrigation head was secured. Each head can be isolated at the base of the trunk with a quarter turn ball valve. The trunks were placed in a grid, three per side and approximately 60 feet apart.

The water was needed prior to the installation of the computerized irrigation system on the golf course so originally a portable pump was used to supply water from a nearby lake. However, once the irrigation system was in place, a “T” was added in an adjacent main line so the system became a little easier to operate.

Being overhead, it was easy for von Hofen and his staff to see from a distance and know that it was in operation which gave them peace of mind knowing their concentration could be given to other necessary tasks. The end cost of the entire system was less than $100 due to the fact that the six irrigation heads went into inventory for future use on the golf course leaving the only true cost being the discarded PVC pipe and PVC quarter turn ball valves.

Darren Davis is director of golf operations, Olde Florida GC; 941-353-4441; fax 941-353-5947; darrenjudddavis@aol.com

AERIFICATION PLUS, INC.
TURFGRASS AERIFICATION AND ROOT ZONE MANAGEMENT

(800) 340-3888
www.aerificationplus.com
Howard's Turf Pride® with RONSTAR®
Solves Weed Control Problems
Without Harming Turf Roots

Most herbicides can't distinguish a bad root from a good one. RONSTAR® Can!

Howard's Turf Pride® with RONSTAR® brand herbicide is the premium product for pre-emergence broadleaf and grassy weed control. RONSTAR® provides season-long protection without harming turf root development. Weed seedlings aren’t so lucky. RONSTAR® is quick to target and destroy undesirable germinating weed shoots like DNA-resistant goosegrass, crabgrass and Poa annua. Use Howard's Turf Pride® with RONSTAR® to kill weeds without affecting new turf sprigs. Help turf recover with RONSTAR® for quick and long lasting results.

Order Howard's Turf Pride® with RONSTAR® by the bag or let us spread it directly on your tees and fairways.
Call 1-800-899-3141 or 407-855-1841
Groveland • Immokalee • Orlando • Quincy
RONSTAR® is a registered trademark of Rhône-Poulenc.
BENHAM'S BEAT

Other Shoe Drops: IFAS Budget Cuts
Go Deeper

By Donald Benham

The University of Florida has been cut another $2 million after already cutting its budget by $2.1 million. Dr. Mike Martin, vice president for agriculture and natural resources, has sent a letter outlining the new reductions. In other words, the other shoe has dropped. Several of these reductions will have direct, immediate effect on all of us. For example the closing of three RECs, restructuring of two more, closures and restructuring of selected campus research programs. To quote Dr. Martin “Be forewarned, we will have to reduce or eliminate programs, if we are to keep our commitment to excellence and some very productive, loyal and long-serving staff members will be laid off.”

Did you know that Ft. Lauderdale REC is part of the group being looked at for restructuring or closure? What can we do about it? Obviously writing, E-mailing or faxing your local legislator lets them know how you feel. Talk to your board of directors and general manager. You probably have some very influential members in your club.

There is a third way: encouraging your board of directors and general manager to have your membership join “Golfers for a Better Environment.” To refresh your memory, the $5-a-member program is jointly promoted by the University of Florida and the FTGA. We cannot replace the large monetary reduction caused by state budget cuts, but by encouraging your club to join the $5-a-member program for turfgrass research, we can accomplish two things: First we obviously gain more research money for needed projects with the faculty of the University of Florida. Secondly, and we gain political clout to go to the Legislature for matching funds.

If 25 clubs with an average membership of 500 were to join this spring, 12,500 voting members would be contributing. Take it a step further. If only 25 clubs from each coast joined for a total of 50 clubs, that is 25,000 registered voters supporting turfgrass research in Florida. I am not saying we could save a particular REC like Ft. Lauderdale, but I am saying we might gain support in the Legislature to promote our turf research with a line item to do it. Politicians listen to numbers of voters. Think about it - only 25 clubs on each coast.

On a happier note, I just returned this morning from a wonderful day at Jonathan’s Landing on Friday, Nov. 30. Thanks to General Manager Peter Young, Club President Paul Moore, the board of directors and Michael J. Perham, GCCS director of course maintenance, Jonathan’s Landing presented FTGA President R. Alan Puckett and me with a $6,500 check representing $10 a member from 650 members.

The presentation was made at the official opening of the redesigned “Village” course at the recommendation of Jan Beljan, associate designer of Fazio Golf. I was invited to play the opening round tournament with the club president and general manager. There was a lot of friendly protest when we won the tournament. The FTGA was enthusiastically thanked for its promotion of this grassroots member program. Please see the enclosed letter from the club.

Dr. Terril Nell of the University of Florida and I would be happy to come to your club and explain the program to your club officials.

Donald R Benham is director of public relations, Florida Turfgrass Association; 941-355-7679; fax 407-896-6857; rdbenham@aol.com

USGA UPDATE

Gabrielle Dumps 18 Inches, Unites Members & Staff

Another hurricane season has come to an end in Florida, and golf courses along coastal regions can breathe a sigh of relief. This region has witnessed a year of extremes in weather conditions (especially rain). Even though some areas are still under drought restrictions, many regions experienced more than 40 - 60 inches of rain from June through September.

September was especially harsh for parts of West Florida as Tropical Storm Gabrielle brought near-hurricane strength wind and rain. Some golf courses only received elevated rainfall while others experienced major wind damage. One such golf course (El Conquistador Country Club) in Bradenton was located near the eye of the storm and received nearly 18 inches of rain and strong winds, which destroyed more than 80 trees and damaged 50 additional trees.

Nearly 50 members came together to help the staff clean the debris from the golf course and get it ready for play. The course was closed for an entire week and the golf course superintendent, Mr. Stephen Wood, CGCS, was overjoyed for their assistance. “With the members’ help, we never fell behind on the day-to-day maintenance that sometimes requires several weeks to catch up on,” added Mr. Wood. When the entire project was complete, 83 truckloads (25 cubic yards per truck load) were required to haul away the debris caused by Gabrielle. Also, at the end of the week the members took up a collection of more than $800 for the maintenance staff. We hear of how the nation has been brought together during these trying times, but it’s nice to see it on a local level as well.

Todd Low Cut

NEW DISEASE IMPACTING POA TRIVIALIS OVERSEEDING

A new patch disease has been making its presence known these days in the SE Region on overseeded bermudagrass putting greens. Dr. Bruce Martin has identified two known cases at the Clemson-Pee Dee Research Station. The new disease has been identified as belonging to the chytridomycete fungal group. Dr. Larry Stowell www.paceptri.com/PTR/DocumentssDiseases0111. PDF of PACE Consulting originally diagnosed the disease on the West Coast in 1995 at golf courses in Nevada and Arizona. USGA agronomists have seen the disease at Carolina coastal golf courses over the past few years, but never knew the cause of the problem.

The disease impacts Poa trivialis, Poa annua, and perennial ryegrass. It really wipes out Poa trivialis, by far the most popular overseeded turf grass, with the mowers and can attack in the both the fall and spring. It is spread by zoospores like Pythium, but the organisms live inside the leaf cells, which is one reason why it has been so tough to identify in the past.

The common denominator at sites with this new disease problem has been poor water and soil quality. The disease operates best with soil or water conditions of high EC, high salinity, and high bicarbonate. It is especially prevalent during droughts (just like we are experiencing now) and at sites without an aggressive soil amendment and flushing program.

From what is known, every variety of Poa trivialis is impacted. Ryegrass is affected as

DONALD R. BENHAM, DIRECTOR OF PUBLIC RELATIONS
FLORIDA TURFGRASS ASSOCIATION
7309 LINKS COURT
SARASOTA, FL 33813
OCTOBER 31, 2001

Dear Donald:

At the recommendation of Jan Beljan, Associate Designer with Fazio Golf Course Designers, you are invited to join Jonathan’s Landing Golf Club to officially open our newly redesigned “Village Course”. During this event the members of Jonathan’s Landing would like to present a check in the amount of $6,500 to benefit the Florida Turfgrass Association.

The membership at Jonathan’s Landing appreciate the dedication shown by the organization in developing superior products to better the game of golf. Through your efforts and those affiliated around the country, the continued research improving turf conditions has greatly assisted our industry.

We would appreciate your attendance.

Sincerely,
Peter H. Young, CCM
General Manager/COO

THE FLORIDA GREEN
well, but the impact is less severe. Curative controls have been unsuccessful, but preventive measures with Fore and Compass have been a plus. Stay tuned for more information on this developing story.

Patrick O'Brien and Chris Hartwiger

Todd Lowe is agronomist, Florida Region, USGA Green Section; 941-828-2625; fax 941-828-2629; tlowe@usga.org

Pat O'Brien is director, Southeast Region, USGA Green Section; 770-229-8125; fax 770-229-5974; patobrien@usga.org

Chris Hartwiger is agronomist, Southeast Region, USGA Green Section; 205-444-5079; fax 205-444-5561; chartwiger@usga.org

PRODUCT UPDATES

Insecticide Product Bans Take Effect, Labels Modified

Editor's Note: As a result of the Food Quality Protection Act, the organophosphate family of insecticides is being reassessed and we have seen drastic changes in the arsenal of products we have relied on for years. The following information has been provided by the manufacturers to update you on the status of some of our insecticides.

OTTO Re-registration Status

At this time the re-registration and tolerance assessment process of Orthene Turf, Tree & Ornamental (Acephate) is nearly complete. The news appears very good for the golf course industry. EPA believes that worker exposure to acephate is within acceptable limits for most golf-course-use scenarios. In addition, EPA has determined that exposure of golfers to acephate residues is not of concern in any current use scenario. Although some labeling changes will be required, they should not significantly affect the viability of Orthene as a pest management tool for golf course superintendents.

The precise changes that EPA will require for the use of Orthene on golf courses have not been finalized. However, it appears highly likely that the following changes will occur:

1. OTTO 75 SP that is not in water-soluble packaging (WSP) will no longer be labeled for ground boom application on golf courses but will remain available as a mound treatment for fire ants. OTTO 75 SP in WSP and OTTO 97 Spray (pellet) will continue to be labeled for application by ground boom.

2. The maximum labeled rate for acephate on golf courses will drop from 5.0 lbs of active ingredient per acre to 4.0 lbs/acre. This means the "new" labeled rate will be 5.2 lbs of formulated product/acre for OTTO 97. This rate reduction should have no significant impact on a superintendent's ability to control labeled turf pests, including mole crickets, cutworms, webworms, and armyworms.

In addition to currently required personal protective equipment (PPE), workers also have to wear a respirator and chemically resistant gloves when mixing and loading OTTO.

It is possible that EPA will require additional label changes for the use of Orthene on golf courses, but we believe any such changes will have relatively minor impact.

Joe Chamberlain
Valent Professional Products
Field Market Development Specialist

Dursban

Old-label Dursban products (labeled for residential use) can be sold to end users until Dec. 31, 2001. Old-label products for Dursban purchased prior to Dec. 31, 2001 can continue to be used by end users under the direction of the old label while supplies last.

New-label Dursban 50W can be used on golf courses, nursery-grown ornamentals, sod farms and non-residential outdoor areas. Dursban Pro can be used on golf courses and non-residential areas. Golf Course usage has

Stuart R. Cohen, formerly of Almar Turf Products, Inc., is pleased to announce that he will be conducting business under the name of Tee-To-Green Turf Products, Inc. and will be providing the identical products that he previously provided with Almar.

Tee-To-Green Turf Products, Inc.
P.O. Box 2224
Palm City Florida 34991

E-mail: Tee2green2001@aol.com
Fax: 561-692-4887
Mobile & Voice mail: 561-719-3462

Superior Solutions for Turf Professionals®
INDUSTRY NEWS

PLANTS OF THE YEAR FOR 2002

Common name: Compact Walter's Viburnum
Botanical name: Viburnum obovatum (compact form)
Hardiness: Zones 7 - 10
Mature height and spread: 4' - 6' tall, 3'-4' wide
Classification: Evergreen shrub
Landscape use: Low hedge or specimen plant
Characteristics: This Florida native features white flowers in early spring. These selected shrubs have red new growth and a more compact growing habit. The red fruit turns black in the fall and in North Florida is semi-deciduous.

Common name: Perennial Peanut
Botanical name: Arachis globrata
Hardiness: Zones 8B - 11
Mature height and spread: 6"-12" tall, 1'-3' wide
Classification: Ground cover
Landscape use: Flowering ground cover, turf replacement
Characteristics: This plant is a good ground cover for well drained soil in a sunny area that tolerates mowing. Bears yellow flowers during late spring, summer and fall.

Common name: Oak Leaf Hydrangea
Botanical name: Hydrangea quercifolia
Hardiness: Zones 5-9
Mature height and spread: 5'-8' tall, 5'-6' wide
Classification: Deciduous flowering shrub
Landscape use: Specimen or mass planting
Characteristics: This native plant needs light to medium shade and has large, fragrant creamy-white terminal bloom-clusters in spring. The large, coarse rusty-brown foliage turns red-orange in the fall.

Florida Nurserymen & Growers Association, 1533 Park Center Drive, Orlando, FL 32835; 407-295-7994; fax 407-295-1619; info@fnga.org

UHS brand fertilizers are designed to meet the demanding agronomic needs of any turf professional. These products are built to perform best according to the local needs of the geographies we serve.

Our UHS Signature Brand Fertilizer "blue line" is comprised of products with the things you'd expect, such as quality and consistency. What sets these fertilizers apart is unique technologies, added performance and unmatched value.

Check with your local UHS rep for more details on our line of outstanding fertilizers
(800) 457-0415 • fax (813) 664-0371
Is Just Part of Your Job

Every golf course has irrigation system challenges. That's why your local John Deere Landscapes golf representative can offer you a range of customized solutions. Whether you are planning new construction or overseeing renovation, we have water management tools to help you better control your costs and enhance the playability of your course.

With the recent acquisition of Century Rain Aid, your local John Deere Landscapes branch is now one of the most comprehensive suppliers of golf course irrigation equipment in the U.S. Our fully-staffed golf support team brings more than 25 years of experience to the game and can help you solve any site challenge.

Irrigation Systems Featuring Hunter Golf
Rotors, valves, central control systems, maintenance radios
Pump Stations Customized for your course
Fountains and Landscape Lighting
Boardtronics Controller Board Repairs Replace outdated Toro™ and Rain Bird™ controller boards: 888-855-9132.

More Than 200 Branches Nationwide

John Deere Landscapes

www.JohnDeereLandscapes.com

On-Site Consultation: 800-642-3706
YOUR KEYS TO HIGH-PERFORMANCE, LOW-MAINTENANCE GREENS.

Topdress with PROFILE™
Gearing up the long-term health of your greens is as easy as making PROFILE™ Porous Ceramics part of your regular topdressing mix. University research and over 3,000 golf courses have proved that PROFILE helps reduce scheduled maintenance by:

- Improving drainage and oxygen in the root zone
- Preventing and minimizing compaction
- Solving localized dry spot
- Increasing moisture and nutrient retention

Build with PROFILE™
PROFILE™ in your original greens mix will prevent many of the problems that drive up maintenance costs later. PROFILE outperforms other soil amendments by permanently altering soil structure with a complete agronomic package:

- Exceeds USGA® stability requirements
- Meets USGA® particle size distribution
- Provides a CEC of 33 meq/100g
- Maintains water-holding capacity, infiltration rates and oxygen levels that exceed industry standards

Profile™
Race to your PROFILE distributor or call 1-800-207-6457 for all the details.
www.profileproducts.com
INDUSTRY NEWS

been reduced to a 1-pound/acre rate. (This rate is not a season maximum rate but a maximum single application rate.

The new label Dursban Pro (Caution label) and Dursban 50W (Danger label) are restricted use pesticides.

End users should apply all products for Dursban according to label directions on the container.

Remember the effectiveness or safety of Dursban has not changed. Dow AgroSciences appreciates your past and continued support of Dursban.

Dow AgroSciences Flyer

Turcam Update

The Chipco Professional Products group of Aventis E.S. will soon cease production and distribution of Turcam insecticide due to a 1999 EPA-mandated phase-out agreement. While production will cease Oct. 31, 2001, end users can apply Turcam indefinitely from stocks purchased and delivered prior to Oct. 31, 2001. For specific information on advanced purchase specials call 1-800-438-5837.

After your Turcam inventory is gone, end users may wish to consider using DeltaGard and Sevin for broad spectrum control of insect problems. DeltaGard (deltamethrin) is a low-dose insecticide with four to six weeks residual action. Sevin has been around for 35 years and comes in water-soluble packing. Sevin has a low phytotoxicity level and highly effective residual activity.

Jim Fetter, Director of Marketing, Chipco Professional Products

2001 Plants of the Year

Editor's Note: This program sponsored by the Woody Division of the FNGLA introduces purchasers to under-utilized, but proven Florida plant material. Selected each year by a panel of horticulturists, nurserymen, educators, landscape architects and other professional members of the horticulture industry, these plants have attributes which attract wildlife or have minimal maintenance impact on the environment.
STEWARDSHIP NOTES

Water Use Replaces Pesticides as Golf’s Top Environmental Issue

By Shelly Foy

We sure have been talking a lot about water in Florida lately. First, we don’t have enough; now some places have too much. It’s a vicious cycle that unfortunately, will more than likely repeat itself every year.

Ten years ago, I would have said that the misconception of pesticide use on golf courses was the greatest environmental concern we faced. I have since come to realize that the real danger for golf courses lies in water use. The bottom line is that there is only so much to go around.

There is a Scottish proverb that says, “We’ll never know the worth of water till the well goes dry.” And perhaps Benjamin Franklin was reading Scottish proverbs when he said, “When the well’s dry, we know the worth of water.”

I recently had an opportunity to read through Audubon International’s updated “A Guide to Environmental Stewardship on the Golf Course,” and there is some great information in this publication on water conservation. Jean Mackay, director of educational services for AI, has given me the okay to share some of the information from this publication with Florida Green readers.

Consider this:

• Though water use on golf courses varies widely depending on climate and other factors, an average golf course may use 10 to 30 million gallons of water per year. (USGA Green Section)
• Superintendents continually rank securing adequate irrigation water among their top concerns. (GCSAA)
• Given recent droughts and erratic weather patterns, adopting water conservation measures is essential for addressing public concerns, securing irrigation supplies, and saving this essential natural resource.

What can you do? Audubon International has a self-assessment checklist for water conservation. Read through the following information and “assess” yourself and your management practices as they relate to water conservation.

General Knowledge:

• Train employees to conserve water and make water conservation a priority in your management approach.
• Identify the water sources used for irrigation and drinking water.
• Know how to operate and manage the irrigation system properly.

Irrigation Equipment and Plumbing Fixtures:

• Irrigation system should be properly designed, correctly installed, and performance should be tested.
• Check irrigation system for proper water distribution in all irrigated areas at least once per year.
• Eliminate all non-target watering (e.g., sidewalks, ponds, habitat areas).
• Check all irrigation equipment daily, and maintain the system on a regular schedule.
• Fix leaks in a timely manner.
• Regularly maintain the pump station so that it is working efficiently.
• Update irrigation system, or components of the system (e.g., valves, sprinkler heads, nozzles, computer software), to reduce inefficiency and malfunction and reduce water use.
• Install part-circle irrigation heads where possible to save water.

Watering Practices and Turf Care

• Incorporate evapotranspiration rates or weather data into daily irrigation decisions.
• Avoid running the irrigation system at peak evapotranspiration times.
• Water “hot spots” to target needed areas only, rather than running the entire irrigation system during the peak of the day.
• Work to maintain an effective water cycle to maximize water absorption and reduce runoff and evaporation, including: maintaining soil cover, improving soil structure, adding or maintaining natural organic matter in the soil, and improving drainage to minimize runoff and maximize water penetration through soil layers.
• Reduce or eliminate irrigation on all unused or minimally used portions of the property.
• Monitor daily water use, tally monthly usage, and set targets for yearly improvement.
• Select turfgrasses on greens, tees, and fairways that are appropriate for local climate and growing conditions.

So, how did you do? I have no doubt that most of you are already doing most of these things to conserve water. If you aren’t, then you should be.

Additional information from this book that I found pertinent:

Keep Records

Monitoring your use of water and tracking yearly trends can help you gauge the success of water conservation efforts. Track water use via municipal usage records, information from a fully automated irrigation system, or estimates of the number of gallons used per cycle and per week. Tally the number of gallons used monthly and yearly. Use these records to set realistic conservation targets, detect trends, plan for drought, and promote your success.

Preparing For Drought

The most effective drought management plan is to implement water conservation measures in advance of a drought and on a long-term basis. Planning for drought before one strikes will allow you to mitigate its effects and reduce damage. Being prepared, coordinating conservation measures among staff of various departments of the golf course (grounds, clubhouse, resort amenities, etc.), and implementing a variety of conservation measures will go a long way toward mitigating the effects of drought. In addition to the information in this book, you can also refer to these websites for more information:

According to Audubon International’s Managed Lands Survey of 2001, here’s what has happened on golf courses since joining the Audubon Cooperative Sanctuary System:

• 60% reduced water costs
• 89% improved their irrigation system or the way that water is applied
• 69% decreased water usage
• Golf courses saved an estimated 1.9 million gallons of water per year per course since joining
• 86% increased efforts to monitor water quality
• 55% increased emergent vegetation in golf course ponds
• 45% instituted a contained wash off area, compared with just 23% prior to joining

What better incentive than that to get involved in the ACSF for Golf Courses?

So if you want to do your part in helping the environmental image of golf courses, make the Florida Green
water conservation your top priority. There is a great American Indian proverb that says, “The frog does not drink up the pond in which he lives.”

Shelly Foy is ACSP coordinator, Florida Region, USGA Green Section; 941-828-2625; fax 941-828-2629; sfoy@usga.org

ACSP UPDATE

New ACSP Members
Airco Golf Club, Clearwater
Burnt Store Country Club, Punta Gorda
Country Club of Orlando, Orlando
Countrywide Country Club, Clearwater
IGM - Tiger Point, Gulf Breeze
Links at Boynton Beach, Boynton Beach
WCI/Pelican Sound Golf Course, Estero
Sunnybreeze Palms, Arcadia

New ACSP Fully Certified Courses
Pelican’s Nest Golf Club, Bonita Springs
IGM - Maple Leaf Golf and Country Club, Port Charlotte

FOR MORE INFORMATION

Quotes are from A Dictionary of Environmental Quotations, compiled by Barbara K. Rodes and Rice Odell and published by the John Hopkins University Press of Baltimore and London.

Sun shining through a summer shower: two good reasons not to be running the irrigation system.


FOR MORE INFORMATION

Quotes are from A Dictionary of Environmental Quotations, compiled by Barbara K. Rodes and Rice Odell and published by the John Hopkins University Press of Baltimore and London.

Sun shining through a summer shower: two good reasons not to be running the irrigation system.


GCSAA: Golf Course Superintendents Association of America, 1421 Research Park Drive, Lawrence, KS 66049-3859; 800-472-7878; fax: 785-841-2240; infobooth@gcsaa.org; www.gcsaa.org/resource/drought.html

National Drought Mitigation Center: P.O. Box 830749, Lincoln, NE 68583-0749; 402-472-6707; fax 402-472-6614; www.enso.unl.edu/ndmc/USGA Green Section: PO Box 708, Far Hills, NJ 07931; 908-234-2300; fax 908-234-9687; www.usga.org/green/index.htm

Thinking about renovating your course?

One call can save you Time, Money and Aggravation.

John Sanford Jr.,
Member of ASGCA

SANFORD GOLF DESIGN
1851 W. Indiantown Road
Suite 100
Jupiter, Florida 33458
Fax: 561.743.1899
E-mail: mail@sanford-golf.com
www.sanford-golf.com

561.743.1897

WINTER 2002
Preserving Surface Water Quality Is As Easy As 1, 2, 3...

James H. Baird, Ph.D.

Water features are an integral part of many golf courses, especially in Florida. Thus, it is important that turf managers exercise common sense and sound management practices in order to protect water quality and the health of aquatic organisms.

One of the greatest risks to water quality is surface runoff of pesticides and nutrients. Runoff occurs when the rate of precipitation exceeds that of infiltration. Loss of chemicals is influenced by several factors:

- **Step 1**: Have your water features and irrigation system tested to determine baseline values of pH, total salt content, sodium permeability hazard, specific ion toxicity, and critical nutrient levels. Pay particular attention to levels of nitrogen (N) and phosphorus (P). Excessive losses of these nutrients into water resources can result in eutrophication, the promotion of algal growth that causes depletion of oxygen in water to the detriment of other organisms. In many situations, application of additional P or other nutrients can be avoided by regular soil and water testing.

- **Step 2**: Establish areas of untreated vegetation adjacent to water features. Research has demonstrated that bermudagrass turf mowed at 3 inches was more effective in reducing time to runoff, runoff depth, concentration, and losses of chemicals compared to turf mowed at 0.5 or 1.5 inches.

- **Step 3**: When using pesticides and fertilizer near water features, choose rates and formulations that have lower runoff potential. Consult the Material Safety Data Sheet (MSDS) for pesticides to find active ingredients with low water solubility and a high adsorption coefficient (KOC). Likewise, natural organic or other slow release forms of nitrogen fertilizer (e.g., IBDU, methylene urea, sulfur-coated urea) applied in smaller amounts are less likely to promote runoff.

- **Step 4**: Avoid application of chemicals immediately before or after heavy rainfall or irrigation. This is almost too commonsensical to mention if it were not one of the most critical steps for protecting surface water quality. A study conducted at Oklahoma State University demonstrated that runoff occurred as much as six times earlier and total runoff was as much as 16 times greater when chemicals were applied to turf under saturated conditions prior to simulated rainfall.

- **Step 5**: Check with your state or local authorities to determine if regulations govern size of buffer widths between 15 and 30 feet. However, the effective size of a buffer is dependent upon several factors including slope, overall size of the watershed, type of vegetation, playability, and potential pollution from maintenance practices.

- **Step 6**: Have your water features and irrigation system tested to determine baseline values of pH, total salt content, sodium permeability hazard, specific ion toxicity, and critical nutrient levels. Pay particular attention to levels of nitrogen (N) and phosphorus (P). Excessive losses of these nutrients into water resources can result in eutrophication, the promotion of algal growth that causes depletion of oxygen in water to the detriment of other organisms. In many situations, application of additional P or other nutrients can be avoided by regular soil and water testing.

For more information on interpreting water test results, please refer to the article titled, Understanding Water Quality and Guidelines to Management in the September/October 2000 issue of the USGA Green Section Record.

Establish areas of untreated vegetation between turf that is treated with pesticides or fertilizer and water features. Buffer strips help reduce surface runoff by diluting applied chemicals, reducing surface flow velocity of runoff water, providing a physical filter of sediment or chemicals in solution, and increasing the potential for infiltration.

Reduced chemical runoff has been documented using buffer widths between 1.5 and 30 feet. However, the effective size of a buffer is dependent upon several factors including slope, overall size of the watershed, type of vegetation, playability, and potential pollution from maintenance practices.
The only thing worse than goosegrass is where goosegrass used to be.

**Fix 'em both with Illoxan**. Unlike old fashioned herbicides, which killed goosegrass but left ugly brown patches in their wake, Illoxan is smarter. It gives you fast, reliable goosegrass control, from one-leaf to one-tiller stages, all throughout the season on established turf. It's also gentle on bermudagrass. Yet no matter how hot and damp conditions get, you won't get ugly brown patches. No sir. And once Illoxan has dried, it won't be affected by rainfall or irrigation: a big advantage in certain parts of the South. Got goosegrass? Get Illoxan. The only thing it leaves behind is a smile.
contaminate surface water compared to readily soluble forms.

**Summary**

Despite recent public concerns about use and environmental fate of chemicals on golf courses, research has demonstrated that turf is an effective filter of most pesticides and fertilizers by interception and degradation in the organic or thatch layer of the upper root zone profile. Chemicals that are highly soluble or not strongly adsorbed to organic matter are more likely to leach or runoff into surface water features.

However, the potential for surface runoff can easily be reduced or even eliminated by employing simple and common sense management practices that include:

1) incorporation of shoreline vegetation adjacent to higher cut turf both of which are designated untreated buffer strips;
2) use of pesticides and fertilizer that have low solubility and high adsorption to soil organic matter (high KOC); and
3) avoidance of chemical application when soil saturation favors runoff. It's as simple as 1, 2, 3.

James H Baird, Ph.D. is agronomist, USGA Green Section, Northeast Region; 610-515-1660; fax 610-515-1663; jmbaird@usga.org

**REFERENCES**


**The Floratine Approach**

"Prescription Without Diagnosis is Malpractice"

- Accumulation of comprehensive, site specific information from laboratory analysis, physical examination, and client dialogue.
- Evaluation and interpretation of information to understand and explain agronomic conditions.
- Recommendation of scientifically sound, environmentally responsible methods and materials to promote optimum soil functioning and turf quality.
- Continuing conscientious monitoring and appropriate program adjustment to achieve maximum health and aesthetics.

**Floratine of Florida**

HALF A PIECE OF MESA IS STILL MESA.

No matter how you break it down, MESA is superior to SCUs. When you cut a sulfur coated urea granule in half the urea is catastrophically released. The result? Flush growth and loss of nitrogen, due to leaching and volatilization.

The MESA granule is methylene urea with encapsulated ammonium sulfate. That means every particle will disperse and nothing is wasted on coatings. And even if the granule is chipped or cracked, it will still disperse evenly without causing immediate release, which often happens with SCUs. Don't risk your turf. Use MESA for consistent, long-lasting results.

For more information, call your nearest Golf Ventures representative.
Whatever the Title, We Still Keep the Green

By David A. Court, CGCS

As the GCSAA is celebrating its 75th anniversary, I can't help but think of all the progress that has been made in our industry over the years. Even though I haven't been in the business for 75 years, it has been more than 30 years since graduating from high school and taking on that summer job at Fort Lauderdale Country Club.

Back in the early '70s the professional on the course maintenance was commonly known as the "green keeper." Ken Roberts, then the green keeper at FLCC was kind enough to give me my first job on the course. He was also the person who initiated the idea of pursuing a career as a golf course superintendent. He didn't lead me in the wrong direction.

In the last 30 years so many changes have taken place in the way golf turf has been maintained. I think it's worth noting how these changes have taken place over the years. I'm sure many reading this will relate to the article and perhaps someone will add some personal experiences in a later issue of the magazine.

Jacobsen, Toro, Roseman and National were the common names in mowing equipment. As I recall, Jacobsen walk mowers with their two-cycle engines were commonly seen along with Toro Series IV as the typical mower used on greens. Greens were mowed as low as 1/2 inch and the stimpmeter was not heard of at that time. Topdressing of greens has gone through a metamorphosis not only in the materials used, but the in equipment that applies these materials. Years ago it was not uncommon to use a 70/30 mix on greens. Organic matter was comprised of Florida or Canadian Peat to a product of the sugar cane industry known as Doc Anderson's Topdressing. Equipment used for topdressing has also made a big change. The walk-behind top dresser that would take all day to complete topdressing of nine holes has been replaced with Terra Toppers, Dakota and Tee-Crop equipment that gets 18 greens topdressed in as little as two hours.

I think the area that has made the biggest impact in turf maintenance has been irrigation. Remember the F-10, Parkmaster, HF-15 and HTM 175? They did a great job replacing pull frames of 5-, 7-, or 9-gang mowers once used on fairways and rough. I'm still using our HF-15 occasionally to scalp down fairways and to reduce thatch build-up.

Topdressing of greens has gone through a metamorphosis not only in the materials used, but in the equipment that applies these materials. Years ago it was not uncommon to use a 70/30 mix on greens. Organic matter was comprised of Florida or Canadian Peat to a product of the sugar cane industry known as Doc Anderson's Topdressing. Equipment used for topdressing has also made a big change. The walk-behind top dresser that would take all day to complete topdressing of nine holes has been replaced with Terra Toppers, Dakota and Tee-Crop equipment that gets 18 greens topdressed in as little as two hours.

Battling insects seemed much easier when we have products like Aldrin and Chlorordan. These were great on mole crickets and grubs as well as other turf pests. The replacements for these seem to be targeted at single pests and less broad spectrum. I'm referring to Chipco Choice, Merit and other pyrethroid products.

A great deal of progress has been made in educating the maintenance staff on the proper way of handling pesticides and other toxic substances used in the work place. Today it is expected that the handler of toxic substances will take proper precautions using personal protective equipment. This was not always the case. Years ago the practice of spaying greens could involve a three men. One man would spray with a "Spray Hawk" while two men would handle 150 ft. of hose and keep it out of the way. Today sprayers are vehicles with booms that can be raised by the push of a button in order to follow ground contours. It all depends on the bells and whistles on equipment.

I think the area that has made the biggest impact in turf maintenance has been irrigation. Courses have gone from manual, quick coupler, single row systems to the sophisticated computerized systems of today. The antiquated system of the past required night water men to drive from fairway to fairway, plugging in sprinklers on a time table that was as variable as the person doing the job. Superintendents just hoped that the water man would not fall asleep on the job or talk to their girlfriends on the phone too long; otherwise wet spots were sure to occur. I'm sure that superintendents of yesteryear could write a chapter in a book about night water men and some of the characters that they had working for them.

Irrigation systems being installed today require far more technical expertise. Automatic systems years ago were designed to run in about 10-12 hours to fulfill maximum ET requirements. Now these systems can water the same amount in as little as five hours. Larger pumps stations (VFD), larger mainline pipe sizing and computerized control have made a tremendous difference. The two leaders in irrigation technology continue to upgrade software to the point where what was good six or seven years ago is obsolete today. Isn't that the way many things are thought? That's progress.

The maintenance staff has also made some changes over the years. In the 1970s it was very common to see more women working on the golf course. At Colony West where I worked on the crew for Richard Lemmel, we had the best crew of all that I have been associated with. We had a crew of 12, six women and six men, and we maintained 36 holes. Everyone worked great together.

Today we see much more of the Hispanic and Haitian labor force throughout South Florida. It is so important for clubs to have someone in a management position who can translate and make sure that instructions are clearly understood.

Education training films in both English and Spanish have become very popular. One series of videos has been produced by FGCSA Past President Darren Davis and Paul Lasthaw. Safety training films have also become a major part of today's operation. Many clubs today employ a person who serves as the human resources director who handles many of the tasks of employee relations, insurance problems, employment and termination's.

In the past 30 years or so many changes have occurred in the role of the golf course superintendent. As I stated earlier some of the readers will relate to this article and others getting started in their careers will see it as a bit of history.

Happy 75th Anniversary to the GCSAA. I hope to make it for the 100th. Let's see where progress takes us in the next 25 years.

David Court, CGCS is superintendent, Boca Lago CC; 561-482-5017; fax 561-487-9776; courtcgc@aol.com
AN EARLY MORNING RIDE DOWN YOUR FAVORITE FAIRWAY MAKES YOU APPRECIATE YOUR HARD WORK AND LONG HOURS.

LESCO is there.

Some days everything seems just right. Other days are less than perfect. But one thing is for sure. Building, growing-in or maintaining a golf course presents many challenges. And it's up to you to turn the challenges into opportunities. The problems into solutions.

A business relationship with a company focused on your needs helps. Someone offering service, convenience, technical expertise and value. Someone who understands what you're up against.

Someone like LESCO. SERVICE. LESCO is there with the most complete line of products available anywhere. Everything from seed, fertilizer, control products and application equipment to flags, cups and markers. Plus so many additional services. Like custom blending, soil testing, grassing specifications and agronomic program development... just to mention a few.

CONVENIENCE. LESCO is there with 69 LESCO Stores-on-Wheels®, 235 LESCO Service Centers® and a variety of direct delivery options. No one makes it easier and more convenient to obtain the products you need... when you need them.

TECHNICAL EXPERTISE. LESCO is there with turf professionals who appreciate the challenges you face and are fully prepared to answer your questions. Turf management and product use recommendations are all part of the job... part of the convenience and service.

VALUE. Put it all together and what you get is an overall commitment from a company dedicated to meeting your needs. That's called value. And value is what that ride down the fairway is all about. Call 800-321-5325. LESCO is there.

GROW WITH US.™

LESCO and LESCO Stores-on-Wheels are registered trademarks, LESCO Service Center is a registered service mark and Grow With Us is a trademark of LESCO, Inc.
2001 FLORIDA GREEN PHOTO CONTEST

1st Place: Welcome to Bent Tree by Tom Biggy, Bent Tree C.C.

Formal Landscape

Category 2 - includes annuals, shrubs, trees, entrance and tee sign beds

2002 Florida Green Photo Contest Rules

Easy Rules

Submissions for judging must be a color or black and white photograph or a slide. No computer print outs of digital photos will be accepted. Only one entry per category. Don't make us choose.

Photo must be taken on an FGCSA member's course and taken by the member or a member of his/her staff.

Attach a label to the back of the photograph which identifies the category, course and photographer. Do not write directly on the back of the photograph. Attach the photo or slide to a piece of 8.5 x 11 sheet of paper with a loop of masking tape for easy removal for handling.

A caption identifying the category, course and photographer should be typed or printed on the paper below the photograph.

Judging will be done by a panel of FGCSA members not participating in the contest.

Mail entries in a bend proof package/mailer to Joel Jackson, 6780 Tamarind Circle, Orlando, Fl. 32819, no later than August 1, 2002.

Prizes

1st Place ($100), 2nd Place $50 in each category
Editor’s Choice - Best Overall Photo - $100
All winning entries will be published in the Florida Green.

Categories

Category 1 - Wildlife on the Course: includes mammals, birds, reptiles, amphibians and insects.
Category 2 - Formal Landscape: includes annual beds, shrubs, trees, and entrance and tee sign beds.
Category 3 - Native Landscape: includes native plant beds, aquatic vegetation plantings, natural areas and any other use of native plants on the course.
Category 4 - Scenic Hole: includes sunrises, sunsets, frosts, storms or any other interesting view of a golf hole.

2nd Place: Tabebuia in Bloom by Erik F. Jorgensen, Royal Palm Y&CC

1st Place: Welcome to Bent Tree by Tom Biggy, Bent Tree C.C.
Words cannot adequately convey the anger and disappointment I feel after learning about the probable additional cuts to the IFAS budget proposed by Gov. Jeb Bush and the Florida Legislature. Twenty years of slow but steady progress building support for the University of Florida’s turfgrass program through FGCSA and FTGA activism may be wiped away with the stroke of a pen by the time you are actually reading this. The Fort Lauderdale Research and Education Center, along with the Turf Mountain and the USGA green built and supported by Florida’s golf course superintendents, is likely to be one of the first victims, but certainly not the last.

Here are the figures under consideration. Of the current $1.3 billion shortfall in state revenues, half is to be cut from education. $104 million is to come from our state universities. IFAS may receive up to $7 million in cutbacks, though V.P. Mike Martin hopes that it will end up being no more than $2 million.

In Dr. Martin’s own words, “Coupled with the previous $2.6 million in cuts received by UF/IFAS at the beginning of this fiscal year, additional deep cuts to the UF/IFAS budget proposed by the House and Senate during the first special session will result in immediate layoffs and facility closures statewide. It might be possible to avoid immediate closures and layoffs if actual new cuts in the second special session do not exceed $2 million on top of what’s already been made. In avoiding immediate closures, UF/IFAS would be in a position this year to begin an orderly transition of reorganization and consolidation of facilities throughout the state. We view this to be an inopportune time to disinvest in the agricultural and natural resources industries, which are major parts of the state’s economy.”

While it may seem unpatriotic and irresponsible to criticize our leadership during a state and national crisis, our industry needs to reflect on how Florida’s politicians have viewed us since the first big IFAS budget cuts back in 1987 - long before the current emergency. Think of all the initiatives we’ve championed over the years and the total lack of respect shown and support given by our state government. Agriculture and the green industry, which includes turfgrass, doesn’t seem to be important to our representatives in Tallahassee anymore, despite our continued growth and economic value to Florida. Politicians don’t seem to understand that Florida’s appeal, and the growth it has experienced, is due to its wealth of natural resources. People come to Florida to enjoy its weather, beaches, fishing, wildlife, and golf courses, more than they come for Disney World and Sea World.

IFAS provides the research and education needed for the protection and enhancement of Florida’s natural resources. Properly funding IFAS is an investment in Florida’s future. What’s the old saying? You give a man a fish and he’s fed for the day, but if you teach him to fish, he’s fed for life. Our elected officials cannot have a clear vision of Florida’s future if they do not understand what the bricks and mortar are that make up the foundation of this state’s economy.

I’m confident that turf will get high consideration with Mike Martin in charge of IFAS, but these proposed cuts are unbelievably severe. We need to rally behind him to make the best of a bad situation and keep the turfgrass program moving forward. We have too much invested and too much to lose if the program once again falters.

Let’s hope that we can somehow come together as an industry - a green industry and not just a golf industry - to map an effective political strategy so that our legislature one day is made up of officials who recognize Florida’s true wealth and understand how best to protect it.

This is a call for articles for the 2002 issues of the Florida Green.

Contact Joel D. Jackson, editor for more information. Phone or Fax: 407-248-1971. Email: flgm@aol.com. All slides and photographs should include identification of persons in the picture and the name of the photographer.

Hands on Topics: Share your best practices and tips for these upcoming topics. Photographs or slides are encouraged.

Spring 2002 - Managing Summer Stress on Greens
Summer 2002 - The Value of Maintenance Standards and Long Range Planning
Fall 2002 - The Role and Responsibilities of the Equipment Manager
Spotlight: People and events making new in Florida. From award winners to chapter tournaments and other accomplishments. Send in your story.
Superintendents Journal: Personal observations or experiences related to any phase of the turf management profession including balancing family life with work.
Professional Development: General management topics beyond turf. Examples: Education, training, facilities operations, personnel, computers, etc.
Industry News: News items of interest to Florida superintendents from allied associations in the turf/horticultural industry.
Opinion: Exactly what it means. Article voicing your point of view on any topic concerning Florida superintendents.
Research: A section reserved primarily for university and technical authors to report on research results within the industry. Also reports of practical on-course testing.
Rub of the Green: Articles and anecdotes with a humorous twist.
Stewardship: Superintendents are invited to submit articles and ideas about environmental issues and initiatives at their courses.
It's been a tough year and there's plenty to think about - from terrorism to the economy - but I've spent enough time worrying about things I can't control and I'm looking for some humor to brighten up my attitude and fend off depression. The approaching holidays and a new year just ahead are enough of a reason to... "Roll up your troubles in an old kit bag and smile, smile, smile," as the song goes. So I'm packing away the soap box for this issue and we're just going to have some fun.

I wondered how I would fill in the Fun Facts questionnaire we've been running on the superintendents in our cover stories lately. So here's my version:

Car: 2001 Toyota Camry LE. I tend to own cars for a long time and drive them till they drop, which is easy when you buy American. I traded in my eight-year old Altima for the Camry which had 6,000 miles on it. I've owned 3 American cars and 3 Japanese cars. Guess which ones lasted longer. Sorry, Detroit. But I don't feel guilty; cars are manufactured internationally these days. I think about an SUV, but my Scottish blood and gas prices keep me cruising on four cylinders. Besides, when I travel I rent American.

Last good movie I saw: Monsters, Inc., I don't know why they call these animated films kid-die movies. The jokes and one-liners sound like something from Saturday Night Live, The Tonight Show or David Letterman.

I stay home to watch: That's Life, Gilmore Girls, Ed and West Wing. Good writing is good writing. I've given up on sports except for the Super Bowl, the last game of the World Series, the Final Four, etc. I still follow golf because those guys don't get paid unless they perform. The rest of the pro cry baby millionaires and semi-pro (col-legiate) athletes have forgotten their blessings and do really stupid things. I hate to watch stupid rich people play games.

I've been reading: "Too Lazy To Work, Too Nervous To Steal" - a book about being a writer; "The O'Reilly Factor" and "The No Spin Zone" by Bill O'Reilly; "Band of Brothers" and "D-Day" by Steven Ambrose; Writer's Digest magazines and holiday catalogs from Sharper Image, Harry & David, Swiss Colony and Victoria's Secret.

Favorite meal: The rib platter from Choctaw Willie's in old historic Winter Garden. Tastes great. Priced right. Actually I love too many kinds of food to have just one favorite.

Favorite performers: John Denver and Billy Joel for all the right reasons. Meg Ryan and Julia Roberts for all the wrong reasons.

Prized possession: My sense of humor. Let's not argue. We're supposed to be having fun here.

Personal heroes: Golf course superintendents who do so much, for so many with so little and so few to help.

Nobody knows that I: Am Bob Sanderson's younger brother. My mother takes the Fifth Amendment every time I ask if was I adopted. Check out our profiles. Talk about limited genetic combinations.

I'm better than anyone when it comes to: Channel surfing with the TV remote, I have not seen a commercial in the past five years. Madison Avenue is trying to outlaw remote controls.

If I could do it over: I could break 80 every time I played golf.

I'd give anything to meet: A GCSAA president who didn't change jobs while serving on the board.

My fantasy is to: Be a writer and travel. Oh wait, that's what I do. Hmm...be careful what you wish for.

The one thing I can't stand is: People talking while I'm interrupting. Frivolous lawsuits. Liars. Cheaters. Oh wait. That's four things.

If I could change one thing about myself: It would be my place in the time-space continuum. I'm not entirely pleased with the current molecular configuration that I inhabit. May the force be with you.

The words that best describe me: Fifty-nine, wrinkled, gray haired, overweight and out-of-shape. See above.

Happy Holidays to one and all and regardless of your faith or denomination may the God you worship bless and keep you and yours till we meet again.

'My fantasy is to: Be a writer and travel. Oh wait, that's what I do. Hmm...be careful what you wish for.'
It's hard to beat the performance of Stardust and Cypress Poa trivialis!

In multi-year trials from the East to the West Coast, these Poa trivs have been tops in color and texture since their release re-defined the overseeding market. An additional bonus, is their higher seed count which give superintendents more coverage for the money. Both are grown under the certification program and this makes the quality of these Poa trivs the standard by which other Poa trivs are measured. But don't take our word for it, take theirs:

Cypress 50% Stardust 50%

“Best average weekly ground cover”
estimates of all Poa trivs in test - University of Fla. Gainesville 1997-98 putting green trials highest seed count of all Poa trivs - University of Florida - 1997-98.

Stardust

“Highest density”
1995-96 overseeded greens University of Arizona

“Highest percent ground cover”
University of Florida. 1995

“Highest mean ball speed scores”
1994-95 overseeded Bermuda greens - University of Arizona.

“Best monthly/seasonal turf color”
of all Poa trivs overseeded on Tifway Bermuda - University of Fla. 1994-95.

“Highest seasonal average”
of all Poa trivs - putting greens evaluation - 1997-98 Mississippi State University.

Cypress

“Highest mean for turf color”
1996-97 putting green overseeding trial, Clemson University.

“Highest quality rating”
of all entries in the 1996 Bermuda Triangle Research Center, Palm Springs, California.
Tooting our horn!
Nucrane celebrates 10 years

IN 1991, WHEN NUCRANE MACHINERY BEGAN OPERATING AS A COMPLETELY DEDICATED TURF EQUIPMENT-ONLY BUSINESS IN FLORIDA, CALIFORNIA, AND LATER, NEVADA...LITTLE DID WE REALIZE THAT A MERE 10 YEARS LATER, WE WOULD REMAIN AS ONE OF THE OLDEST DISTRIBUTORS STILL UNDER THE SAME ORIGINAL OWNERSHIP THAT NOW EXISTS IN THOSE AREAS OF OPERATION.

WE ARE GRATIFIED BY THE LOYAL FOLLOWING OF TURF EQUIPMENT PROFESSIONALS WHO HAVE RESPONDED TO OUR PHILOSOPHY OF SERVICE, SUPPORT, AND MUTUAL RESPECT...AND SINCERELY THANK ALL OF YOU FOR ALLOWING US TO PROVIDE YOU WITH THE ALTERNATIVE OPTION IN TURF EQUIPMENT OVER THE LAST DECADE, AND LOOK FORWARD TO WORKING WITH EVEN MORE OF YOU IN THE NEXT.

2020 SEABIRD WAY
RIVIERA BEACH, FL 33404
(561) 842-0440

417 CENTRAL PARK DRIVE
SANFORD, FL 32771
(407) 323-9555

72104 CORPORATE WAY
1000 PALMS, CA 92276
(760) 343-0270

6361 INDUSTRIAL BLVD
LAS VEGAS, NV 89118
(702) 263-4512