

THE GREEN SHEET



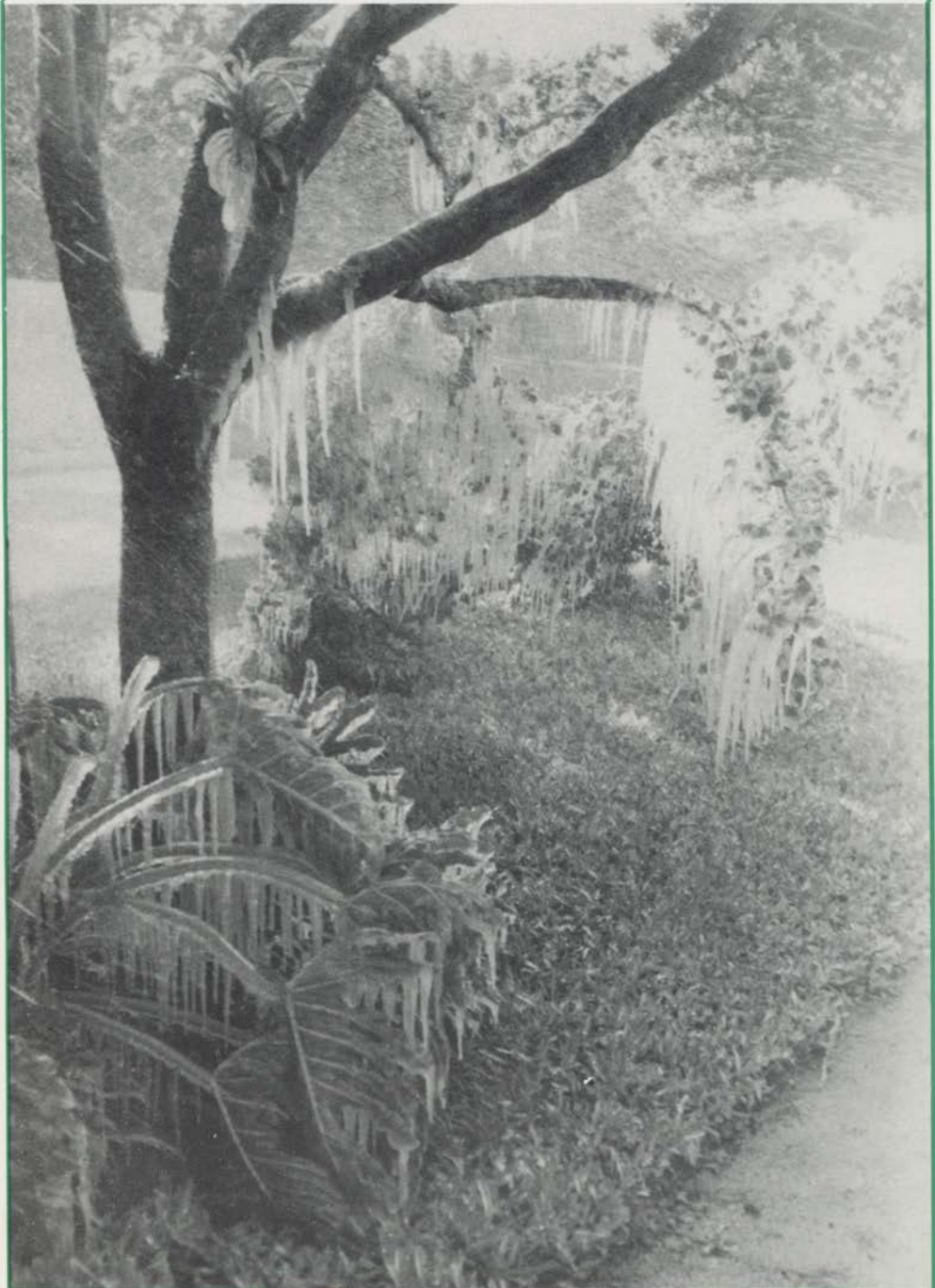
VOL. VI, PART I, JAN./FEB. 1990

NEWSLETTER OF THE FLORIDA GOLF COURSE SUPERINTENDENTS ASSOCIATION

A WHITE CHRISTMAS ... IN FLORIDA???

UPCOMING EVENTS

- Jan. 8 South Florida chapter meeting,
Inverrary CC, Lauderhill
- Jan. 10 Treasure Coast chapter
meeting, The Moorings,
Vero Beach
- Jan. 15 Central Florida chapter
meeting, Orange Tree CC,
Orlando
- Jan. 17 Palm Beach chapter meeting,
Binks Forest, West Palm Beach
- Jan. 18 Assistant Superintendent Day,
Palm Beach Community
College
- Jan. 18 West Coast chapter meeting,
Clearwater CC
- Jan. 22 Suncoast chapter meeting,
Bradenton CC
- Jan. 22 FGCSA Irrigation Seminar,
Pinellas County, Largo
- Jan. 23 FGCSA Irrigation Seminar,
Orange County, Orlando
- Jan. 24 FGCSA Irrigation Seminar,
Palm Beach County, Palm
Beach
- Jan. 25 FGCSA Irrigation Seminar,
Broward County,
Ft. Lauderdale
- Jan. 27-30 1990 PGA Merchandise Show
Orange County Convention/
Civic Center, Orlando, Florida
- Feb. 17 FGCSA Board Meeting
Bay Hill Club, Orlando
- Feb. 19-20 GCSAA Golf Tournament,
Orlando
- Feb. 19-26 GCSSA Convention and Show,
Orlando Convention Center



All time record lows on Christmas Day in Sunny South Florida, as the temperature drops below 32° in Palm Beach County.



FGCSA Officers and Committee Roster

THE GREEN SHEET

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CIRCULATION

The Green Sheet is a bi-monthly FGCSA Newsletter printed as follows: Jan./Feb.; Mar./Apr.; Sept./Oct.; Nov./Dec. The Green Sheet is designed to be a current, up-to-date newsletter as compared to the "Florida Green" (an educational communication magazine.)

FINANCIAL SUPPORT

The 1989 FGCSA Green Sheet operating budget for issues Sept./Oct. thru July/Aug. is being financially supported by:

ESTECH FERTILIZER INC.
2121 3rd Street S.W.
Winter Haven, FL 33880
(800) 282-9588

CRITERIA

All material submitted for printing will be edited per the discretion of the editor. Material must be typed or clearly printed. All photos must be black and white (color photos reproduce poorly for this text). Items submitted must be for the good of the association.

DEADLINE

All the material must be submitted prior to the 2nd Friday of the preceding issue, i.e. February 16th for the Mar./April issue and April 13th for the May/June issue.



**NEXT
EDITOR'S
DEADLINE**

February 16th



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(407) 499-8480
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(407) 546-2620

RELATED ORGANIZATIONS:

FTGA OFFICE: (407) 898-6721

GCSAA: (800) 472-7878



PRESIDENT'S MESSAGE

by Joel Jackson, C.G.C.S.

It sure is good to be getting back to work after my tour through the Wonderful World of Cardio-Vascular Surgery. I am now an official member of the "Cabbage Patch". This is based on the acronym C.A.B.G. (Cardio-Arterial Bypass Graft). I have been working half days for the past two weeks and will start full days next week, beginning December 4th. The surgeon says I can chip and putt for now, and work up to the full swing over the next few weeks. As many of you know it is the healing of the breastbone that was cut in half that takes the tedious, patient recovery time. After all, it is a "broken bone".

Being forced to "slow down" gave me plenty of "time" to think about my lifestyle and my priorities. What I discovered is no great revelation, but merely a confirmation of what we all know. You need to eat a balanced diet of foods and get adequate exercise. I let myself become too sedentary, and I raided the ice box at night and the candy and coke machines at work. Fast food dinners were convenient, and "away from golf" activities diminished. This pattern over the past several years I'm sure was the final straw in a dietary and hereditary race "hell bent for a heart attack". Thankfully, a few angina pains gave me enough warning that I was able to have the problem corrected before some serious damage was done.

So, what is the new game plan? Well, I walk several miles a day now at work. The idea is to ride nine holes and walk nine holes daily. I had to rely on the staff to run the show while I was out, and they did a fine job. I was already a firm believer in delegating responsibility, so I see no reason to change. You must have

WATER SHORTAGE RESTRICTIONS NURSERY/URBAN IRRIGATION/RECREATION

well trained, capable people to help you. One person can't do it all. Make time for yourself and the family. We are in a wonderful profession. Learn to enjoy it and the other dimensions of your life. The other major change of course will be the diet. There is a great brochure from the Heart Association that presents all the beneficial foods and the foods to avoid in a way that isn't so negative. I am learning to eat to live, and there isn't much of a sacrifice when you eat in moderation. As the new year approaches, resolve to live a healthier happier life and enjoy the fruits of your labors.

* * *

One last reminder to make your plans to attend the GCSAA's Conference and Show in Orlando February 19-26, 1990. If you aren't a member of the GCSAA join now, and have the \$165.00 registration fee to the Conference and Show waived. Call 1-800-GSA-SUPT for more information



FREE PASSES

Free Passes to the GCSAA Show which may be used by any crew member from an GCSAA club have been distributed to all local chapters. They can be redeemed at the Convention Center on Monday, February 26, for admittance to the Show for that day only. The passes are not intended to be used by superintendents, but rather by any of your crew members you feel would benefit by spending a few hours at the show. To receive a Free Pass coupon, please call your local chapter secretary.

The FGCSA will have a Hospitality Suite located in the Peabody Hotel for the weekend of February 23 - 27. All FGCSA members are invited to stop in to the suite during the weekend. We also invite you to include any out-of-town superintendents who might like an opportunity to talk with Cecil Johnston before the election. Sponsors will be solicited by the Convention Committee and specific times will be announced later.



STATE ORDERS WATER USE CUT

Residents from Jupiter to Key West were ordered to reduce water use because South Florida's water supply is at an all-time low.

Regional water managers on Thursday imposed cutbacks that limit outdoor water use — primarily lawn watering and car washing — to three days a week, between 4 and 8 a.m.

"This indicates we are on the verge of a very serious, record-breaking drought in South Florida," said Tom MacVicar, deputy executive director of the South Florida Water Management District. "We're at the lowest we've ever been."

The region's 16-month drought is likely to get a lot worse before it gets better, water managers said. The district's board unanimously approved cutbacks that limit homeowners and businesses alike in Palm Beach, Broward, Dade and Monroe counties.

The drought has left the amount of water stored in Lake Okeechobee and the Everglades at an all-time low, figures that go back only until 1963 show, MacVicar said.

But the announcement that mandatory restrictions would be imposed left water officials wondering whether the arm of the law has enough reach in Palm Beach County.

No countywide regulations exist to help enforce water restrictions, said Thatcher, the district's director of local government assistance.

The district has to rely almost totally on local enforcement, he said. "We just don't have the bodies to do it."

Any violation of the restrictions is actually a violation of state law, punishable by 60 days in jail and a \$500 fine, said Elizabeth Ross, an attorney for the district.



GOLF COURSE USE

PHASE I Moderate Shortage: Greens and tees-night only, other reductions voluntary. Fairways and roughs-same as Phase I landscape irrigation, existing installations over 5 acres. (Front 9 Mon., Wed., Sat.; Back 9 Tues., Thurs., Sun.)

PHASE II Severe Shortage: Greens and Tees - night only, other reductions voluntary. Fairways and Roughs-Same as Phase II landscape irrigation-existing installation over 5 acres. (Front 9-Wed., Sat., Back 9-Thurs., Sun.)

PHASE III Extreme Shortage: Greens - night only, other reductions voluntary. Tees- 3 days/week, Front 9 Mon., Wed., Sat. Back 9 Tues., Thur., Sun. Night only. Fairways and Roughs- Same as Phase III landscape irrigation-existing installation, over 5 acres. (Front 9- Sat; Back 9-Sun.)

PHASE IV Critical Shortage: Greens-night only, other reductions voluntary. Tees-1 day/week, Front 9 Sat. Back 9 Sun. Night only. Fairways & Roughs-Same as Phase IV landscape irrigation-existing installation, over 5 acres. (Front 9-Sat.; Back 9-Sun.)

AESTHETIC USE (includes fountains, waterfalls, etc.)

PHASE I Moderate Shortage: Outside-Prohibited Inside-Voluntary reductions.

PHASE II Severe Shortage: Same as Phase I.

PHASE III Extreme Shortage: Outside-Prohibited Inside-Prohibited.

PHASE IV Critical Shortage: Same as Phase III.





61st INTERNATIONAL
GOLF COURSE CONFERENCE & SHOW
FEBRUARY 19-26, 1990

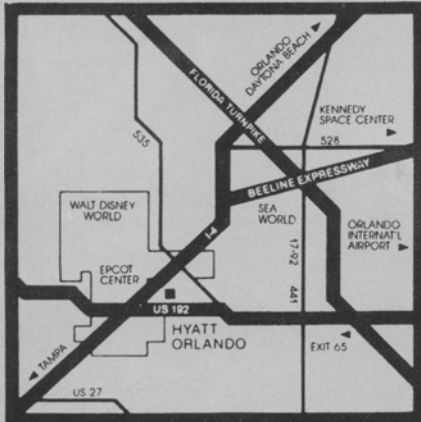
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room block of 100 at the
special following rate



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Call 1-800-882-1234

*State you are with the Florida Golf
Course Superintendents Association
when making reservations.*



6375 WEST IRLO BRONSON MEMORIAL HWY.
KISSIMMEE, FLORIDA 32741 USA
(407) 396-1234

- **LOCATION:** Interstate 4 and U.S. 192. Two miles from Walt Disney World's Magic Kingdom and EPCOT Center.
- **RESTAURANTS AND LOUNGES:** Limey Jim's, Italian Tour restaurant, Summerhouse, full-service restaurant, Palm Terrace, glass kosher restaurant, Market Place delicatessen, Trellis court and Verandah Lounges.
- **RECREATION:** 3 lighted tennis courts. 1.3 mile jogging and exercise trail. 4 playgrounds/ 4 wading pools. 4 adult heated pools/ 4 whirlpools.

TRANSPORTATION INFORMATION GUIDE

- **WALT DISNEY WORLD — The Magic Kingdom & EPCOT Center:** \$5 per person roundtrip - children under 3 free (refer to schedule for shuttle times).
- **SEA WORLD/WET 'N WILD:** \$7 per person roundtrip - children under 4 free.
- **BOARDWALK & BASEBALL:** \$10 per person roundtrip - children under 4 free.
- **ORLANDO INT'L AIRPORT:** \$11 per adult - \$6 per child - under 4 free. Must be arranged (prefer 24 hours in advance). Pickup time should be set 2 hours prior to flight time.



GETTING TUNED

The FGCSA golf team held a practice round in December at Hunters Creek. Buck Buckner, Fred Klauk, Dave Oliver, and Joe Ondo will represent the state at this year's GCSAA Tournament. Dave Oliver reported that the team will need to do a little better than their practice scores in order to win the Championship for the state even though all four golfers managed to stay in the 70's. He also stated that Hunters Creek is the type of golf course that should bring out a lot of low scores, especially if the back tees are not used. However, he did caution that the course could "play long".

This year's GCSAA Tournament has over 600 entries. The Championship Flight will be held at Hunters Creek on Monday, February 19 and then move to the New Course at Grand Cypress on Tuesday.

**RESEARCH GREEN/
TURF TECHNICIAN**

by Kevin Downing, CGCS

Finally a Reality . . . Can you believe it! I am sure that many of our readers have ben hearing about this project for such a long time and were beginning to wonder if it ever was going to happen. Well, we are just about to finalize a contract with the FGCSA Technician and install the irrigation system. Grass planting should begin in February and hopefully by early summer we can start our experiments. Basically the technician will be responsible for the upkeep of all the turf and irrigation equipment at the Fort Lauderdale Center along with th e day-to-day care of all bermudagrass turf plots. This individual will also work closely with the turf specialists from the University of Florida in the evaluations concerning a variety of experiments.

The research green will be planted with 75 percent Tifdwarf with the remaining 25 percent Tifgreen 328. The sub-surface is divided between USGA specifications, Modified (No Choker Layer) and a Geotextile fabric as a choker. As you can imagine, we are going to utilize this project as a place where you can bring owners, members, or greens chairmen to evaluate the three different types of construction. Intially our basic studies will include:

1. Fertilizer analysis
 - Percentage mower pickup
 - Monitor release times
 - Ratios of N to K
2. Aerification comparisons
3. Leaching of chemical studies
4. Cultural practices
5. New product evaluations

Just a start. If you have any ideas, call Kevin Downing, CGCS, to feed him with your thoughts.

Who gets the credit for this endeavor . . . well we must start with the perseverance of the committee:

- Kevin Downing
- Ray Hansen
- Mark Jarrell
- David Buchanan
- John Foy
- Paul Crawford

IT'S IN THE BAG

The FGCSA Convention Committee has selected the official tee gift for the GCSAA Golf Tournament. We will be distributing tweed shoe bags embossed with the FGCSA logo and the words, "1990 Golf Championship" to all entrants.

The Committee is still searching for golf courses who will open their courses to visitors during the Convention week. The Committee needs Preferred Tee Times, not necessarily blocked time. We would, at least, like to give the visiting superintendents an opportunity to make tee times at your club. We realize that February is a very busy time for all golf courses, but if your club can donate a few Preferred Tee Times, please call Rick Walker at (407) 239-1057. Thank you.

Who can overlook the patience of Dr. Monica Elliott and Dr. John Cisar or the funding from the following chapters:

- Central Florida
- Everglades
- North Florida
- Palm Beach
- South Florida
- West Coast

The actual construction of the green credit goes out to:

- Rough grade **Billberry & Associates**
and shaping
- Trucking: **W.W. Googe**
Swiftline Trucking
- Soil Mixing **American Peat**
Sand **Florida Rock**
Peat **Southern Importers**
Shredder **Lewis Equipment Co.**
Drainage Pipe **Boynton Pump**
Irrigation Pipe **Melrose**
Drainage Pipe **High Ridge CC**
Installation: **Palm Beach Nat'l CC**
Willoughby GC
Jacaranda CC
Turf-Tech
- Irrigation **Hector Turf, Inc.**
Heads: **Boynton Pump**
- Rock **Rinker Materials**
- Choker Layer/ **Central Florida Turf**
Geo-textile layer



IRRIGATION SEMINAR

The FGCSA Education Committee will be presenting a follow up to our successful Irrigation Seminar during the week of January 22, 1990. The seminar will be held from 1:00 to 4:00 p.m. Registration fee is \$20.00. There are no CEU's attached to this program! Dates and places are as follows.

- Monday January 22** **Pinellas County Ag. Center**
12175 125th Street
Largo, FL
- Tuesday January 23** **Orange County Ag. Center**
2350 E. Michigan Ave.
Orlando, FL
- Wednesday January 24** **Palm Beach County Center**
559 N. Military Trail
West Palm Beach, FL
- Thursday January 25** **IFAS Research Center**
3245 SW College Ave.
Fort Lauderdale, FL



IN MEMORY

John Jankiewicz, Superintendent of Hunters Creek Golf Club, one of the five courses to be used in the GCSAA golf tournament was killed Friday, December 1st in a traffic accident on I-4. A tractor-trailer rig crossed the median and collided with two cars. The driver apparently fell asleep? John was a hard working professional who did an excellent job at every course where he worked.

George W. Cavanaugh, age 61 years of Jupiter, passed away Saturday morning, December 16, 1989 after an extended illness. He had been a resident of the Palm Beach area for the past 20 years and was employed by Perini Land & Development Company in West Palm Beach since coming to the Palm Beach area as their Golf Course Superintendent. Mr. Cavanaugh was Superintendent of the President Country Club of West Palm Beach and presently at Bear Lakes Country Club. A veteran of WWII serving with the U.S. Army. He was a member of the Golf Course Superintendents Association of America, the Local Palm Beach Chapter, VFW Post 2007, WPB, Loyal Order of Moose Lodge #2010 PBG, Elks Lodge #2469 (BPOE) Jupiter and the Tennis Club of the Palm Beaches. The family wishes to extend a grateful appreciation to the Perini Corporation and friends for their acts of kindness.

Surviving are his beloved wife, Lorraine; his devoted daughters, Karen Cavanaugh, Lake Worth and Kim Cavanaugh of West Palm Beach; his sister, Mrs. Teresa Millerick of Tulsa, Okla.; his mother-in-law, Mrs. Mary Tobie of Port St. Lucie, Fla. and a sister-in-law, Mrs. Micki Mitchell of West Palm Beach. Numerous nieces and nephews also survive.

Les Brown, former South Florida golf course superintendent died on December 8, 1989, after an extended illness.

Les was born in Cleveland in 1954. He received his education here in Florida at Broward Community

College. He became an active member of the South Florida chapter where he served on the Board for six years. After serving as Secretary/Treasurer for the chapter, he did double duty by serving two consecutive years as President of the SFGCSA.

Les began his golf course career at Arrowhead CC in 1979 and then moved on to La Gorce CC in Miami from 1980 - 1985. He accepted the superintendent position at Fort Lauderdale CC from 1985 - 1987.

Les is survived by his father, Clair Brown, from North Carolina and two sisters and two brothers. He was an excellent photographer and could have had an exciting career in that field if he had not chosen the turfgrass industry as his profession. Les is well thought of by his peers in South Florida and will be badly missed.

The South Florida GCSA has made a donation to the American Cancer Society in his memory.



Assistant Superintendents Needed

Bear Lakes CC, West Palm Beach.
Contact Jerry Redden (407) 686-3772.

Atlantis GC, West Palm Beach.
Contact Mark Henderson
(407) 965-6316.

Walden Lakes CC, Plant City.
Contact Burt McCrimmon
(813) 754-4670.

Boca Polo Club, Boca Raton.
Contact John Troiano
(407) 997-0006.

Palmetto GC, Miami.
Contact Al Weitzel (305) 233-3150.

Williams Island CC, Miami.
Contact Ed Miller (305) 651-5100.

Head Mechanic Needed.

TPC at Eagle Trace.
Contact Joe Pantaleo
(305) 421-2933



JOB CHANGES:

Dave Oliver has moved from Mariner Sands CC in Stuart to Martin Downs CC.

Paul Bondeson will be leaving La Gorce CC to accept the position at Mariner Sands.



F.T.G.A.

Notes from the Boardroom

- The F.T.G.A. recently received a request for a copy of the latest proceedings to be sent to the U.S.S.R. Central Scientific Agricultural Library.
- Ruth is re-directing her responsibilities as secretary and turning over the interworkings of the office to Susan. Ruth will now become the coordinator for our annual show. Congratulations to both girls.
- Field Day in Gainesville May 10th The Turfgrass plots will be dedicated to the Memory of G.C. Horn and will be re-named the G.C. "Granny" Horn Turf Grass Field laboratory. Plan to attend!
- Bob Yount was recently appointed as "Executive Director" of the F.T.G.A. Bob is really going to be busy now as he will retain his title of V.P. of the research foundation. Congratulations Bob!
- Sara Title III seminar manual's available for a fee of \$50.00. Coming this year from your member services committees manuals on 1) Workman's compensation, 2) Wage and hour 3) Superintendents personal liability.



RESEARCH FOUNDATION NOTES

- Listed below are the average monthly receipts into the foundation for the past four years.
1986- 1,700 1988-13,000
1987-10,000 1989-31,000
- Sixty-two clubs in the state are sending donations in to the foundation on a line item basis; compared to 19 last year. Keep up the good work!

Participation in the states experiment on mole cricket control with nematodes is looking great. To date, we have twenty-seven clubs signed up. The clubs participating are to be commended for their enthusiasm in this project.



FROM THE DESK OF RUSS MITCHELL

FIRE ANTS: How to put the fire out

As most Golf Course Superintendents know fire ants on the course are a nuisance and hazard. If a golfer gets stung and is allergic, a lawsuit could occur. If fire ants get on a green or tee they are a double problem with mounding and potential stings. Most superintendents treat greens and tees often enough for other pests to prevent major problems but the rest of the course is another matter!

First let's go over the advantages and disadvantages of each product and then an overall strategy for maximum control.

AMDRO: A bait that most people are quite familiar with. It is a slow stomach poison. Kill takes place in 24 hours up to 2 weeks. This depends on the weather and feeding habits of the individual mound. Bait replacement can be around individual mounds or broadcast over several acres. The main advantage of Amdro is that the bait breaks down rapidly when exposed to sunlight and heat. The bait also will become rancid in high moisture conditions. This means you must apply Amdro when the ants are actively feeding and when it is dry. Late afternoon is best.

LOGIC: A new bait that is a growth regulator. It kills by sterilizing the reproductives. It can be applied like Amdro. The bait looks similar but is photostable and does not go rancid as quickly.

ORTHENE T&O: A product that is labeled to treat individual mounds as a wet drench or dry treatment. I recommend the dry treatment. This is very economical and kills in less than 24 hours.

DURSBAN GRANULES: Cheap and ineffective. Makes the mound move. Rarely ever gives a complete kill. I do not recommend this.

DURSBAN INJECTED: by high pressure rodding **EXAMPLE (PT-270)** Effective on mounds but expensive and you don't know if you

hit the center of the mound where the queen or queens are or not. The reason for this is the center of the mound may be three or four feet to one side not directly under the hill of the mound.

MOUND DRENCHES EX: (ABC Fire ant killer) These products contain solvents which suffocate the ants within minutes and then volatilize out of the ground in a couple of hours. It is quick but burns the grass. Also the most common solvent used is also used as a alternator and motor cleaner. It is also on the EPA hit list. It is now legal but it is like a legal way to pour gasoline on a fire ant mound.

My personal recommendation for fire ant control is as follows. Broadcast a bait wall to wall twice a year. Then follow up with individual mound treatments for the occasional fly in of a new queen. My choice for the bait is LOGIC. Amdro will work but weather and sunlight will work against you, LOGIC is more stable and will still work if wet for a short while. It is much slower though and takes up to three months to completely work because after the queens are sterilized the ants must die of old age. This is ideal because the ants stay put in the mounds and there is no chance of movement. Ideal timing for application of baits are Spring and Fall. There is a spreader made just for LOGIC that costs about \$200.00 and is calibrated for 1.5 pounds per acre which is the proper rate. The spreader can be attached to anything with a 12 volt battery such as a three wheeler or a cushman. The approximate cost of treating a 120 acre golf course is \$1000.00. This twice a year is not bad to be 95% ant free. Follow up with spot treating mounds with ORTHENE. Drag your foot lightly across the top of the mound to bring up the ants and sprinkle ORTHENE lightly across the top. The powder is non-repellent and the ants take it back down to the queen to protect her. All the ants come in contact with the orthene and within 12 hours all are dead. Very effective and inexpensive. This is the best one two punch I know of and you will spend less overall than spot treating

mounds with AMDRO or LOGIC for that matter. It just wastes money to bait individual mounds because for every mound you see there are five mounds that are not seen because they are not big enough to mound up out of the ground. They will not come in contact with the bait. Then when kill is achieved on the mound baited the competition is lessened on the other mounds for food so they grow very fast and all of the sudden you have mounds everywhere! That is why you must broadcast bait over the entire property. That is the key to control.



HURRICANE HUGO

The Florida Golf Course Superintendents Association is asking for your donations to help fellow Superintendents, and employees in the Carolinas. Let's help them, by sending tax deductible check donations made payable to:

"Carolina's Golf Course Superintendent Association"

Mail to: Hurricane Hugo Donations
 c/o Dave Meda
 Boca Woods Country Club
 21460 Greenhill Lane
 Boca Raton, FL 33433

The collection of these checks will be forwarded to the Carolinas chapter whereby their Secretary will distribute funds accordingly to the needy.

The following list of people have contributed over \$2,700.00 and their respective checks have already been mailed to the Carolinas chapter as we go to print;

West Coast Chapter	\$1000.00
Palm Beach Chapter	\$500.00

\$100.00 donations

Delray Stake & Shaving Inc.

Discount Hardware

Everglades Chapter

Florida Bedding Plants

Florida Superior Sand

WW Gooze

Haverland Blackrock Paving Corp.

Herb. Corp.

J. Williams Pump Service

South Florida Turf Prod., Inc.

\$75.00 or less

Belle Glade Electric

Gillice Enterprises, Inc.

H. Don Wilson

L & M Hardware

Pifer, Inc.

Sullivan Electric, Inc.

NEWLY CERTIFIED

Congratulations to Cary Lewis, our most recent Certified Golf Course Superintendent!

Cary is a native Floridian who began his golf turf career building golf courses with General Development Company from 1971 - 1976. From there, he went on to Lake City Community College to earn his degree in 1977. Upon graduation, he left his home state to work at Farrington G&T in Atlanta. Two years later he returned to Florida to work with Tom Fazio on the construction of Windstar CC in Naples. After completing that job, he turned his construction knowledge to Vintage CC (now called the Vines CC) where he worked with Gordon Lewis. In 1986 he decided to get into infrared photography with his own company, Remote Sensing. But, once again, the lure of the golf course industry called him to accept the superintendent position at the Country Club of Orlando in 1987.

Cary is married to Marla Jane, another Florida native and they have two sons, ages 7 and 13.

CONGRATULATIONS TO THE FOLLOWING CERTIFIED GOLF COURSE SUPERINTENDENTS FROM THE SOUTH FLORIDA CHAPTER:

Dale Kuehner,
 Colony West CC, Tamarac

Mark Williams,
 Bayshore GC, Miami Beach



A LOGO AGREEMENT

During the year there has been some controversy about the similarity of our logo, and the insignia of the Florida Golf Course Superintendents Association.

Although our service mark is registered with the United States Patent and Trademark Office, as a courtesy to our friends in the golf course industry, we are voluntarily redesigning our letterhead and literature for 1990.

Kindest regards,
 Florida Waterway Management
 Steven Weinsier, Executive Director



SCHEDULE OF CLASSES SPRING - 1990

The University of Florida offers the Bachelor of Science Degree in Ornamental Horticulture at the Fort Lauderdale Research and Education Center. This program is designed to serve the educational needs of working horticulturists who are placebound due to their family and job responsibilities.

**Cultural Factors in Ornamental
 Plant Production**
Principles of Horticultural Taxonomy
Plant Propagation and Laboratory
Turfgrass Science*
**Nursery and Foliage Container
 Production Laboratory**
**Commercial Production of
 Foliage Plants***
Basic Plant Pathology
Principles of Entomology
**Landscape Practices and
 Arboriculture**
**Spring Semester begins on
 January 8, 1990**

For information contact: Dr.
 Stephen D. Verkade (305) 475-8990

*Designates a new course



THE LASER LADY

With the purchase of an Apple Laser Printer last year, the FGCSA office entered the Age of Technology! During the past year the Association has purchased various software packages for word processing, database functions, spread sheet capabilities and Desk Top Publishing. The Laser Printer creates exceptionally clean, clear copies that are "printer quality". Any local chapter of the FGCSA is welcome to use the Printer for your printing needs.

This year the FGCSA office has added a postage machine and, just recently, a Fax machine. We feel these purchases have made your office as professional as the turfgrass industry itself. We hope you, as a member of the FGCSA, will appreciate the quality of work that is generated by our office and welcome any suggestions you may have for further improvements.



FLORIDA EAST COAST
W. E. "BILL" RAYSIDE
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