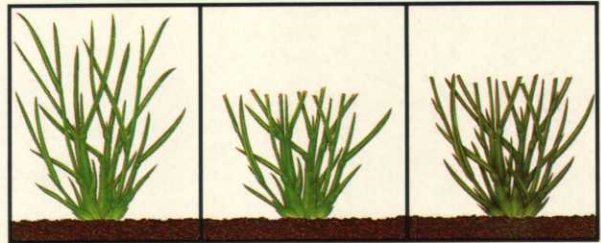


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Unlike other turf growth regulators, new Cutless doesn't stop the development of warm and cool season turfgrass. Instead, it reduces or slows your turfgrass's growth rate by shortening the internodes of the growth stem with no adverse effects on their roots. The result is improved turf quality and more playable fairways.

With Cutless, your turfgrass appears thicker and stronger for a denser, more consistent playing surface. Golf balls just naturally sit up better.



1. Sprig of grass in normal state.
2. Seven to 10 days after Cutless application, mowed sprig sometimes exhibits slight discoloration of treated area and leaf tip browning.
3. Growth reduction peaks between third and eighth weeks, accompanied by darker green coloration and increased tillering.

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Because Cutless-treated grass grows at a slower rate, there's also a dramatic reduction in clippings. Up to 50% less. With less mowing frequency. Also up to 50% less. You not only save time and labor costs, you

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Here's another added benefit with Cutless. As your turfgrass grows up thicker and more competitive, there's less room for troublesome weeds to interfere. Cutless also helps crowd out *Poa annua* for conversion to a more desirable turfgrass such as bentgrass.



Scott Niven
Superintendent, Stanwich Club
Greenwich, Conn.

"I've reduced clippings 30 to 50% when we mow fairways. My guys don't have to empty the baskets as much, so we save time and money on labor. But I think the best advantage is the reduction in the amount of water you have using Cutless. It's a marked difference.

"Initially, you get so little discoloration with Cutless that a golfer would never notice it. But after 4 weeks, the difference was between night and day on how dark green the Cutless turf was.

"Cutless helped us convert from 80% Poa annua to over 95% bentgrass within five years. But I'm just as impressed with how Cutless creates a much thicker turf. It makes the grass as tough as nails, helps the ball sit up higher for our golfers."

Find out more about giving your course more playability with Cutless. See your Elanco distributor. Or for a free brochure, call toll-free: **1-800-352-6776.**

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20 courses to test new bio-control for mole crickets

NAPLES — After four years of testing in Alachua County pastureland by researchers with the University of Florida's Institute of Food and Agricultural Sciences, "the most promising biological control agent for mole crickets we have ever had" is ready for field trials at 20 Florida golf courses.

"Everything looks extremely promising as far as finally having something we can brag about," said Bob Rehberg, chairman of the Florida Turfgrass Association's research awards committee, following an education session during the FGCSA's Poa Annua Classic weekend May 20-22.

What Rehberg and the FTGA are bragging about is an Uruguayan nematode which carries a bacterium "at least four times more virulent on the mole cricket than some of the other materials that have been pulled in from commercial organizations."

The microscopic worm crawls in the mole cricket's mouth, infects it with the lethal bacteria, and then crawls out before the insect dies "within one to several days," Rehberg said.

In IFAS' controlled study, the nematodes have remained in the soil four years after their release and their effect has been detected more than 10 miles from the original release point.

In that study on bahiagrass pastureland which, Rehberg pointed out, is "particu-



KIEFFER/JANLARK

FTGA's Bob Rehberg announces new bio-control for mole crickets at Poa Annua education session.

larly susceptible" to the dreaded root-eating pest, "the mole cricket populations... have decreased by about 95 percent and continue to decline as we continue to monitor.

"Grass and trees have recovered from mole cricket damage and mole crickets are no longer an economic problem in these pastures."

The nematode and its lethal bacterium are completely harmless to "all other biological systems," Rehberg said. "All tests indicate so far that it is very specific."

So now the FTGA, which funded the IFAS research by Dr. Grover Smart with a total of \$45,000 in grants, is going to let 20 members test the nematode on their golf courses.

"We're looking for 20 members who will pay \$8,000 each to participate in a two-year study," he said.

In a follow-up conversation one week after the Naples announcement, Rehberg said several FTGA members already had

expressed interest in the project.

"Undoubtedly we'll have more than 20 willing to participate," he said. "Compared to the alternatives, \$8,000 is practically free."

The problems in testing the nematode under field conditions have been not so much with the organism but with the "delivery system."

The laboratory technique for infecting the mole crickets is difficult, unpleasant and expensive.

Besides, Rehberg said, "IFAS is not equipped, nor is it in the business, to raise large amounts of any biological control agent."

The technique developed by the FTGA involves luring mole crickets to traps filled with nematode-infested sand and then dumping the infected mole crickets on the golf course "where they can go infect other mole crickets before they die," Rehberg said.

"It may take a couple years to get them out there in sufficient numbers to really show you a difference," he said, "but we think it will happen."

Participants in the test will be selected in such a way as to guarantee a variety of soil and climatic conditions. They will attend a seminar in Gainesville.

Old Marsh lands '92 USGA Women's Mid-Amateur

FAR HILLS, N. J. — Dennis Weber became the latest Florida superintendent to learn his work will be placed in the national spotlight when the USGA announced March 22 that the Old Marsh

(Please see OLD MARSH, page 16)

SUMMER SPOTLIGHT

Superintendents who will test the champions

July 27-30 — **Jim Branstrom**, Palm Beach Polo & CC, West Palm Beach. Florida Open.

Aug. 19-20 — **Frank Sbarro**, Marsh Landing and **Kim He-mauer**, Oakbridge at Sawgrass, Ponte Vedra. FSGA Team Championship.

Aug. 22-25 — **Greg Pheneger**, PGA National GC, Palm Beach Gardens. PGA Junior Championship.

Sept. 28-Oct. 1 — **Robert Giehls**, Killearn CC, Tallahassee. PGA Tour Centel Classic.

Sept. 30-Oct. 1 — **Bob Ellis**, Lake Region Y&CC, Winter Haven. FSGA Senior Four-Ball Championship.

Oct. 5-8 — **Steve Schroeder**, Mayacoo Lakes CC, West Palm Beach. FSGA Mid-Amateur Championship.

Oct. 13-16 — **Larry Kamphaus**, Walt Disney World, Lake Buena Vista. Oldsmobile Scramble Finals.

Oct. 18-21 — **Larry Kamphaus**, Walt Disney World, Lake Buena Vista. PGA Tour Disney/Olds Classic.

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Spacing 2.50 in. x () in.	Production sq. ft. per hr.	Yield holes/sq. ft.
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1.50	8,440	38.4
2.00	11,250	28.8
2.50	14,060	23.0
3.00	16,875	19.2
3.50	19,690	16.5
4.00	22,500	14.4
4.50	25,310	12.8
5.00	28,125	11.5

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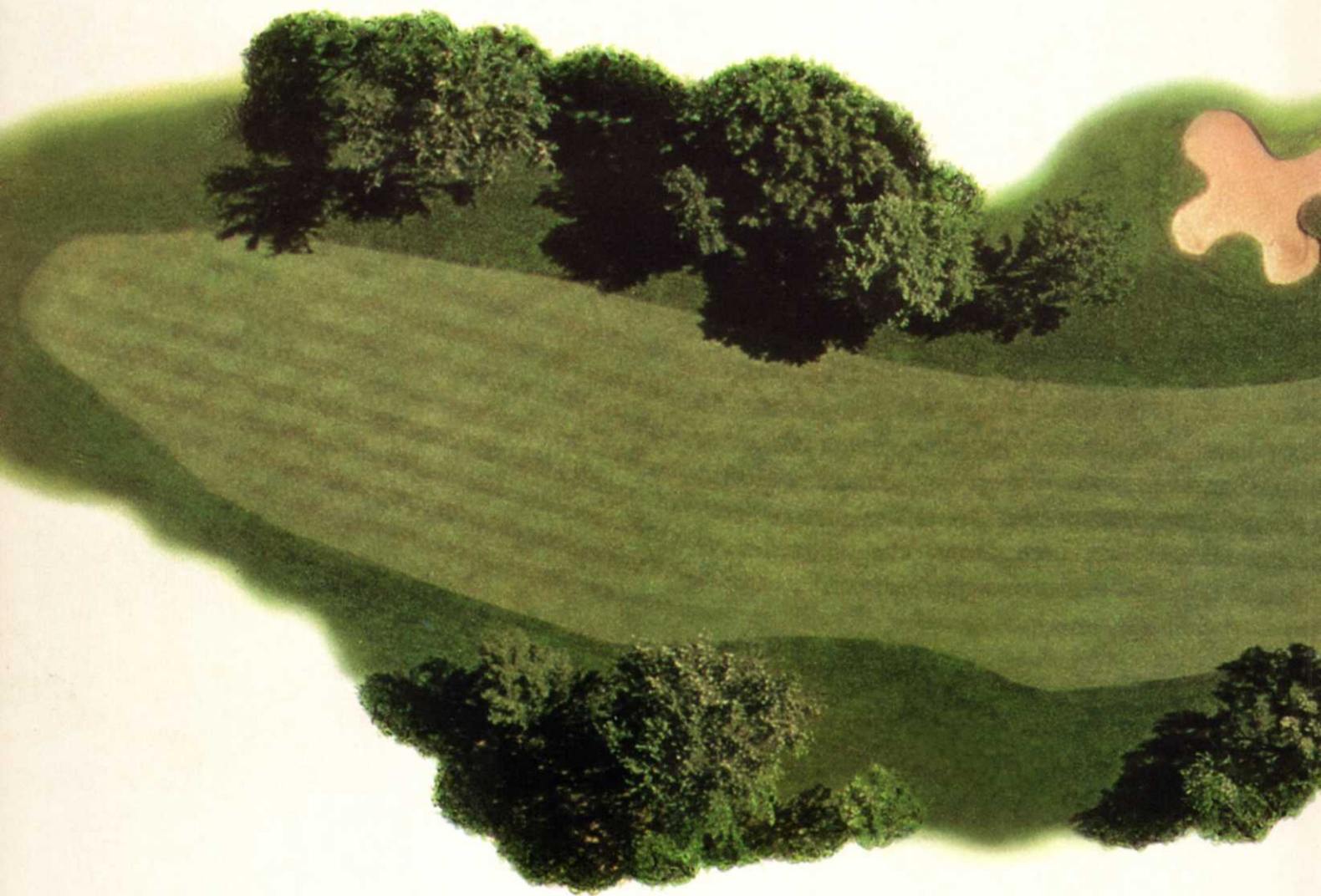
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John's Island Club gives \$6000

Trevor Wright, right, general manager of the John's Island Club in Vero Beach, presented \$6,000 to the Florida Turfgrass Research Foundation. Accepting the check is Bob Yount, FTRF vice president of development. "John's Island Club expects to make this an annual contribution and we encourage other private, semi-private and daily fee courses to make a similar investment in the future of Florida turf," Wright said.

Old Marsh gets Women's Mid-Am; USGA Jr. at Bay Hill delayed

(Continued from page 12)

GC in Palm Beach Gardens will host the 1992 U.S. Women's Mid-Amateur Championship Oct. 3-8.

It will be the first USGA championship at the two-year old Pete Dye course that plays to 4974 yards from the ladies' tees. It measures 6914 from the tips. The 1992 Women's Mid-Am will be the second in Florida: the 1988 event was played at Amelia Island, also designed by Dye.

Jimmy Ellison at Bay Hill Club in Orlando got an extra year to get his course ready for the Junior Amateur. Originally scheduled to host the 1990 event, Bay Hill switched dates with Merced G&CC in Daly City, Calif., and will now challenge the young limberbacks July 23-27, 1991.

Tom Mackanos has until 1992 to get

the Loxahatchee Club in Jupiter ready for the USGA Senior Amateur Oct. 19-24.

USGA to distribute \$660,300 in turfgrass research grants

FAR HILLS, N.J. — The USGA will distribute a record \$660,300 in turfgrass research grants in 1989, an increase of more than \$190,000 over 1988's total.

The USGA turfgrass research program, now in its seventh year, is a cooperative venture with the GCSAA. Including the 1989 grants, the USGA will have provided nearly \$3 million in grants in an attempt to develop new turfgrasses and management techniques that will reduce golf course maintenance costs and water use by 50 percent by 1993.

(Please see DROUGHT, page 18)

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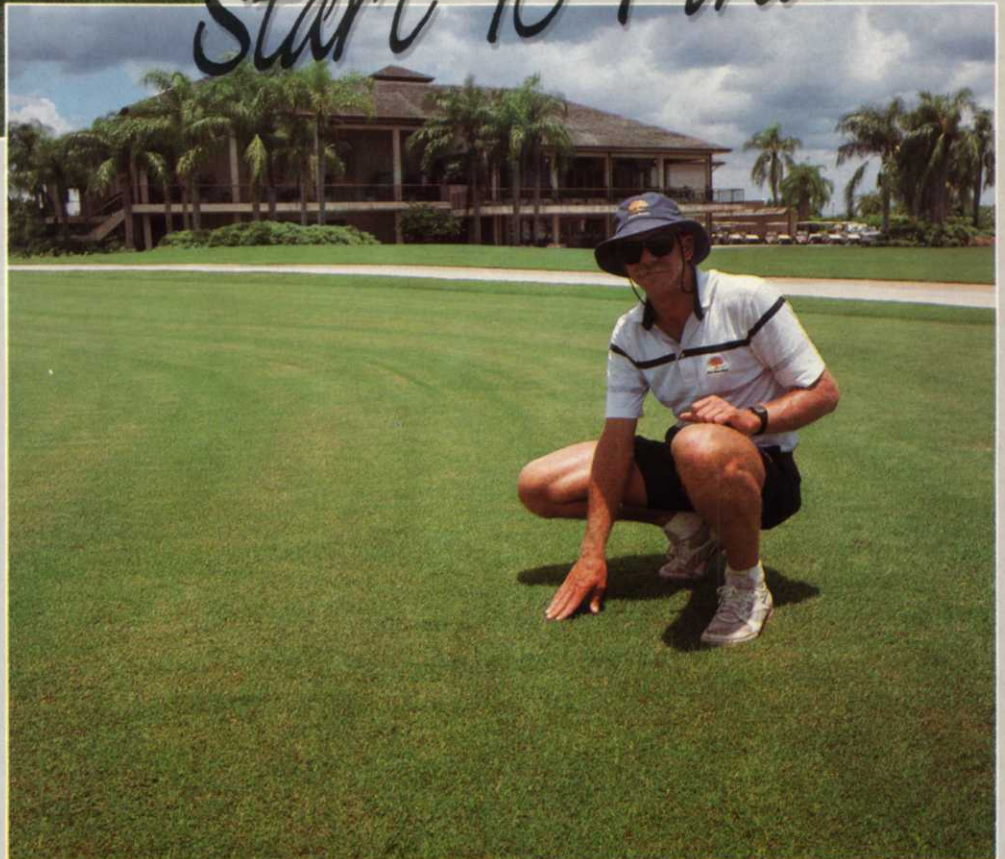
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Brian Bowles, Construction Superintendent, Palm Beach Polo Club

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Note: Weed free established turf

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Drought-resistant bermudagrass first product of USGA program

(Continued from page 16)

Progress has been made since the project's inception in 1983. One notable contribution has been made by Dr. Arden Baltensperger at New Mexico State University, who has developed a new seeded bermudagrass named Sahara, which has shown excellent resistance to drought. The first improved grass produced by the the USGA research program, Sahara will be commercially marketed for the first time in 1989.

"Our achievements of the last six years are just beginning to show," explained Dr. William H. Bengeyfield, chairman of the USGA Turfgrass Committee. "The program will succeed. We are confident of that."

Copies of the 1988 Turfgrass Research Summary are available from GCSAA headquarters or from the USGA.

Grants will be awarded in 1989 for 19 projects too numerous institutions for studies involving turfgrass breeding, cultural practices and the USGA Turfgrass Information File at Michigan State University.

TGIF is a computer-based bibliographic database with more than 13,000 entries covering published materials on turfgrass research and maintenance.

Innovations are proving to be of great assistance to researchers. With computer access to the database now available, data can be retrieved almost immedi-

ately. Also in development is a turfgrass thesaurus, a supplement to the thousands of keywords already entered and available.

Additional information concerning TGIF is available from the USGA Green Section office in Far Hills, N.J. or from the Michigan State Libraries in East Lansing, Mich.

Florida leads nation in total courses, new developments

JUPITER — Florida led the nation in golf-course development for the most recent two-month reporting period, according to the National Golf Foundation.

In the May/June issue of *Golf Market Today*, the NGF reported that Florida had 38 golf courses in the planning stage, under construction or recently opened. California was second with 18.

Florida also had the most golf course openings in 1988, the NGF said, with 35 out of a total of 211 for the entire nation. Texas was second with 20.

Overall, Florida now leads the nation with 932 golf courses at 745 facilities. California is second with 836.

With 412, Florida has more private courses than any other state and is second to Michigan in daily-fee courses with 432. Michigan has 489.

The Sunshine State ranks sixth in municipal courses with 89. California leads the nation with 166.

Of the 38 projects reported in the last

two months, 22 are listed as private, 11 as daily fee, 2 as municipal and 3 as unknown.

Jacksonville led the way with seven projects, followed by Naples with three.

Unless otherwise indicated, all are 18-hole courses. The complete list:

Recently opened

- Alaqua CC, Longwood
- Great Oaks GC, Marianna (9 holes)
- Hunter's Ridge, Naples
- Sabal Springs, Cape Coral (9 holes)
- St. Johns GC, Elkton (9 holes)
- Vineyards of Naples, Naples
- Willoughby GC, Stuart

Under construction

- Cape Haze Links, Rotonda
- Chi Chi Rodriguez Youth Foundation, Clearwater
- Cobblestone CC, Stuart
- GC of Palm Beach, West Palm Beach
- Indian River Colony Club, Indian Harbour Beach
- Julington Creek, Jacksonville (9 holes)
- Oakbridge CC, Lakeland
- Old Trail at Jonathan's Landing, Jupiter
- PGA Tour Course at Jacksonville
- Plantation Club/Sugarmill Woods, Homosassa
- Polo Club, Boca Raton (9 holes)
- Rotonda G&CC, Rotonda
- Sabal Springs, Cape Coral
- The Cedars, New Port Richey
- The Enclave, Port St. Lucie
- Unnamed, Jacksonville
- Victoria Estates, Port Charlotte
- Wellington GC, Wellington

(Please see 13, page 20)

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13 courses listed in planning stage

(Continued from page 18)

Planning stages

- Big Cypress Lakes, Lakeland (9 holes)
- Birk Forest GC, Wellington
- Foxglove CC, Lantana
- Glen Kernan Jacksonville
- Monterey, Goldenrod
- Oak Tree Sports Club, Hawthorne
- Oakford, Sarasota
- Queens Harbour Y&CC, Jacksonville
- Shamrock G&CC, Naples
- Silver Sands CC, Jacksonville
- Terraverde CC, Miami
- Unnamed, Jacksonville
- Waterford GC, Melbourne

Lake City graduates 35 in GCO plus 14 in first TEST class

LAKE CITY — Six students, including the only woman in the class of 35, graduated from the School of Golf Course Operations at Lake City Community College with highest honors May 5. All were from Florida.

Another six students, including three from out of state, completed the three-year program with high honors while five received their associate of science degrees in golf course operations with honors.

The GCO students at Lake City CC must complete 104 classroom credits in mechanics, agronomy, business administration and academic core subjects plus two summer internships under the supervision of a qualified golf course



LAKE CITY COMMUNITY COLLEGE

TEST Center opens at Lake City Community College

The dream that started 20 years ago took a new shape Sept. 9, when the new Turf Equipment Service Technology Center was dedicated on the campus of Lake City Community College. The building, containing classrooms and laboratories, also houses nearly a half-million dollars worth of turf equipment loaned by various manufacturers. The TEST program awards a terminal certificate and serves as the first year of Lake City's three-year program leading to an associate of science degree in golf course operations.

superintendent. This year's graduating class of 35 out of 45 who began the program three years ago was described as "typical" by a spokesperson for the college.

Palm Beach County supplied the most graduates with six, while four each came from Naples and Sarasota. One graduating senior came from the Republic of Panama and another six came from other states.

In addition to the 35 degrees, the school also issued 14 certificates to the first graduating class of its one-year program in turf equipment service technology. According to Ed Combest, chief instructor of mechanics, most will work at golf courses or become manufacturers' service representatives.

All but one TEST graduate came from

Florida.

The 1989 graduates of Lake City Community College's School of Golf Course Operations:

HIGHEST HONORS (3.75+ GPA) — Craig Boller, Crystal River; Chris Bower, Winter Haven; Lon Chatfield, Sarasota; Sherrie Keblish, Miami; Scott Spara, Sarasota; Greg Tharp, Atlantic Beach.

HIGH HONORS (3.50+ GPA) — Mickey Beechy, Southington, Ohio; Robert Emmons, Naples; Steve Larsen, West Palm Beach; Steve McGinnis, Zephyrhills; Greg Moore, Richmond, Ind.; Douglas White, Tucson, Ariz.

HONORS (3.30+ GPA) — Richard Abbott, Boca Raton; Rick Brain, Sarasota; Scott Campbell, Sarasota; Paul Mollberg, Jupiter; Tim Perez, Northport.

DIPLOMATES — Bryce Abel, St. Petersburg; Gary Gorden, Naples; John Holmes, La Grange, Ga.; Tom Kennedy, Columbus, Ga.; Henry Kerfoot, Falls Church, Va.; Gavin Lapper, Seminole; Andy Lemmel, West Palm Beach; Andre Lenders, Cape Coral; Robert Moffett, Boca Raton; Martin Moore, Fort Myers Beach; Mike Mulcahy,

(Please see LAKE CITY, page 46)



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