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USGA specifications and will be restored to their original contours.

Architect revises booklet on greens construction

"More than 70 percent of all greens today have been improperly built, or otherwise fail to meet modern scientific standards conducive to promoting growth while reducing physical and physiological stress," says Dr. Michael Hurdzan, a former superintendent and past president of the American Society of Golf Course Architects.

In his revised version of the 24-page pamphlet, "The Evolution of the Modern Green," Hurdzan points out that to further complicate matters, each green has its own requirements involving such factors as orientation to the sun, air, drainage, shade and wind, and swings in temperature and relative humidity.

"The net result," Hurdzan concludes, "is that today's golf course superinten-

dent has 18 different 'babies,' each one having its own strengths and weaknesses, and all of them being susceptible at any given time to devastation resulting from weather, disease, insects, vandals, weeds, equipment failure or operator error, miscalculation or player abuse."

The quest for faster greens has resulted in a situation in which more of today's greens are being stressed beyond their genetic capacity to heal themselves.

However, he believes space-age technology will help win the battle.

"Today's greens are the product of such disciplines as agronomic chemistry, soil physics, genetics and



Mike Hurdzan

play physiology — disciplines that were far removed from the art of turfgrass management until the last 30 years or so," Hurdzan says.

Even at world-famous courses, the greens may be perfect only for a very short period, and then only with great expenditures of time, money and manpower, he adds.

"Therefore, greens should not be compared. Good greens are expected... great greens should be appreciated... and perfect greens should be cherished. For they are as fragile and changeable as life itself," he says.

Hurdzan's booklet reviews the historical development of the putting green, including the dominant methods of construction and the carefully prescribed procedures for building them, as well as the proper care and maintenance of both new and mature greens. It is available for \$5 from the American Society of Golf Course Architects, 221 N. LaSalle St., Chicago, IL 60601.



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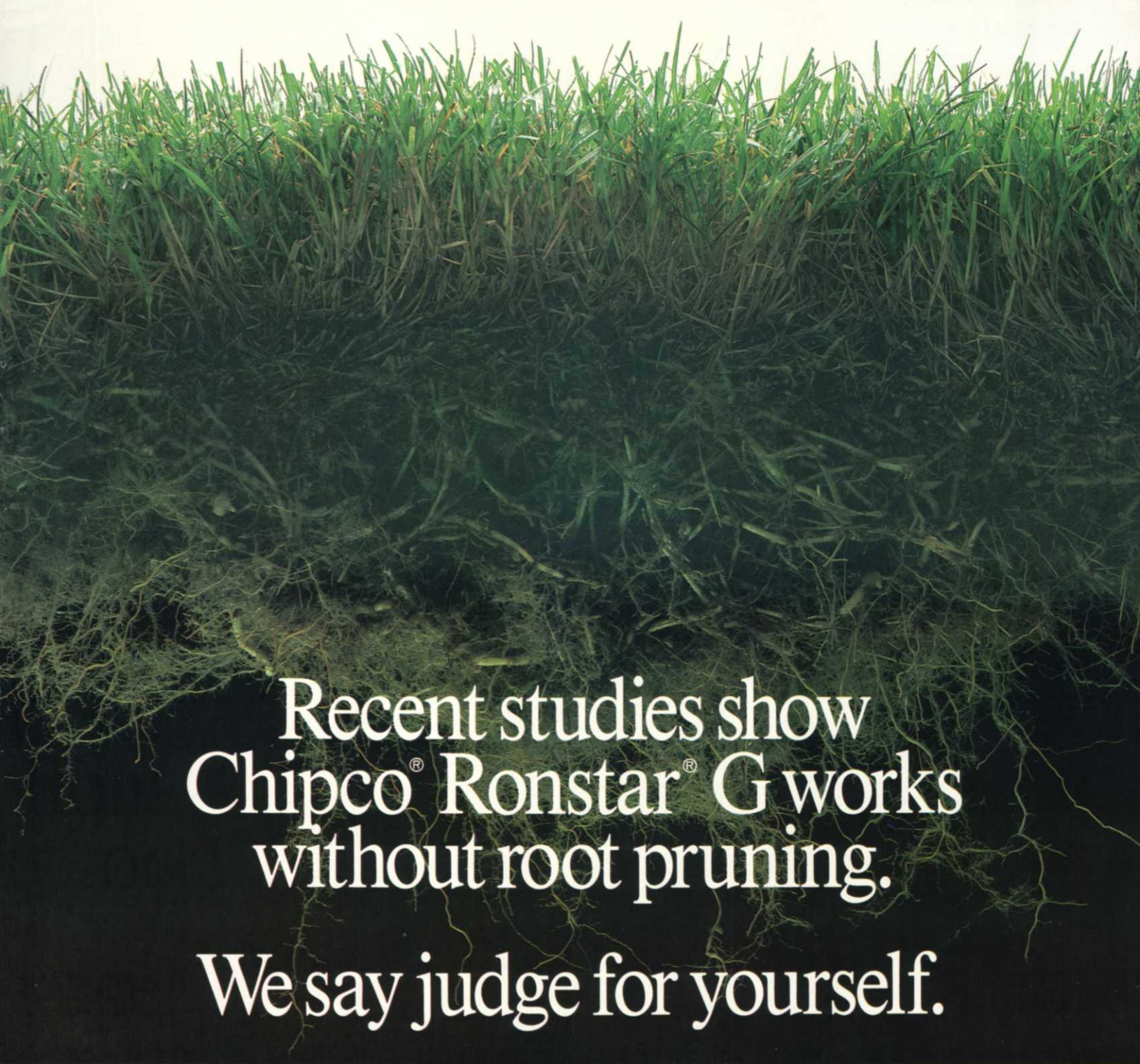
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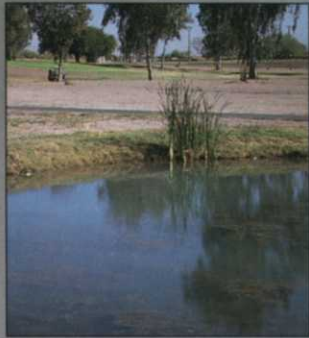
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Dan Jones, C.G.C.S.,
Manager
Banyan Golf Club
West Palm Beach, Florida

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Florida was first!	18	Florida's golf numbers	24
Florida dominates supply list ..	19	29 great golf courses	28
Course makes its own water	22	FGCSA tops 600	32

Exclusive country club real estate usually is advertised by word of mouth and sold in mahogany-paneled offices. In Florida \$200,000 lots are advertised on billboards and sold out of mobile homes.

Golf in Florida is a \$5 billion business

Eventually, everything and everyone in golf comes to Florida.

And if they don't stay, at least they leave their money.

Golf is such a big part of Florida's economic picture that its Department of Commerce commissioned a study by the National Golf Foundation.

The finding: Golf is a \$5 billion industry in Florida, fully 20 percent of the gross national golf product.

Of that \$5 billion, less than \$400,000 is spent on equipment. The rest is on real estate, green fees, golf course construction and golf-related travel.

Nobody knows for sure exactly how many golf courses Florida has because we're building them as fast as they can pass cut the permits, sometimes faster.

As of Jan. 1, 1989, the NGF had counted 932 courses open for play in Florida. The 1990 data, scheduled for release in mid-to-late February, should show about 50 more. Another 89 were under construction or on the drawing boards as of Dec. 15, 1989 (See page 74).

More than 200 touring professionals call Florida home and, now that the LPGA has decided to give new meaning to Daytona Beach's old slogan "Where the girls are," that number is likely to climb significantly.

If Daytona Beach is where the girls are, Palm Beach is where the golf is. This one county of about 2,000 square miles and fewer than 700,000 inhabitants at the northern end of the Gold Coast supports more than 125 golf courses, all but half a dozen of them in the county's 500 square miles that are within 15 miles of the Atlantic Ocean.

If Palm Beach County were a state, it would have ranked 35th in the number of golf courses at the end of 1988, between Maine (116) and Maryland (143). By the time the 1989 data are published, it's entirely

possible for Palm Beach County to have passed Maryland and a few other states.

Palm Beach County is home to the PGA of America (which has located two and a half of its 43 sections, or chapters, in Florida), the National Golf Foundation, the Golf Course Builders Association and a handful of the world's greatest golf course architects, including one of the most prolific (page 65).

It is also home to Florida's oldest famous golf course, Donald Ross's Seminole.

It's not easy to build a great golf course in Florida, but the state has one of the largest and most varied collections of outstanding golf courses in the world (page 28).

The land is flat and generally uninteresting, the sandy soil won't hold water, which is in short supply (page 22), and the delicate ecosystem already is supporting more people than nature intended. In other words, the environmental laws are tough.

The one thing Florida golf developers have in their favor is OPM — Other People's Money or Older People's Money, take your pick. Florida has lots and lots of that.

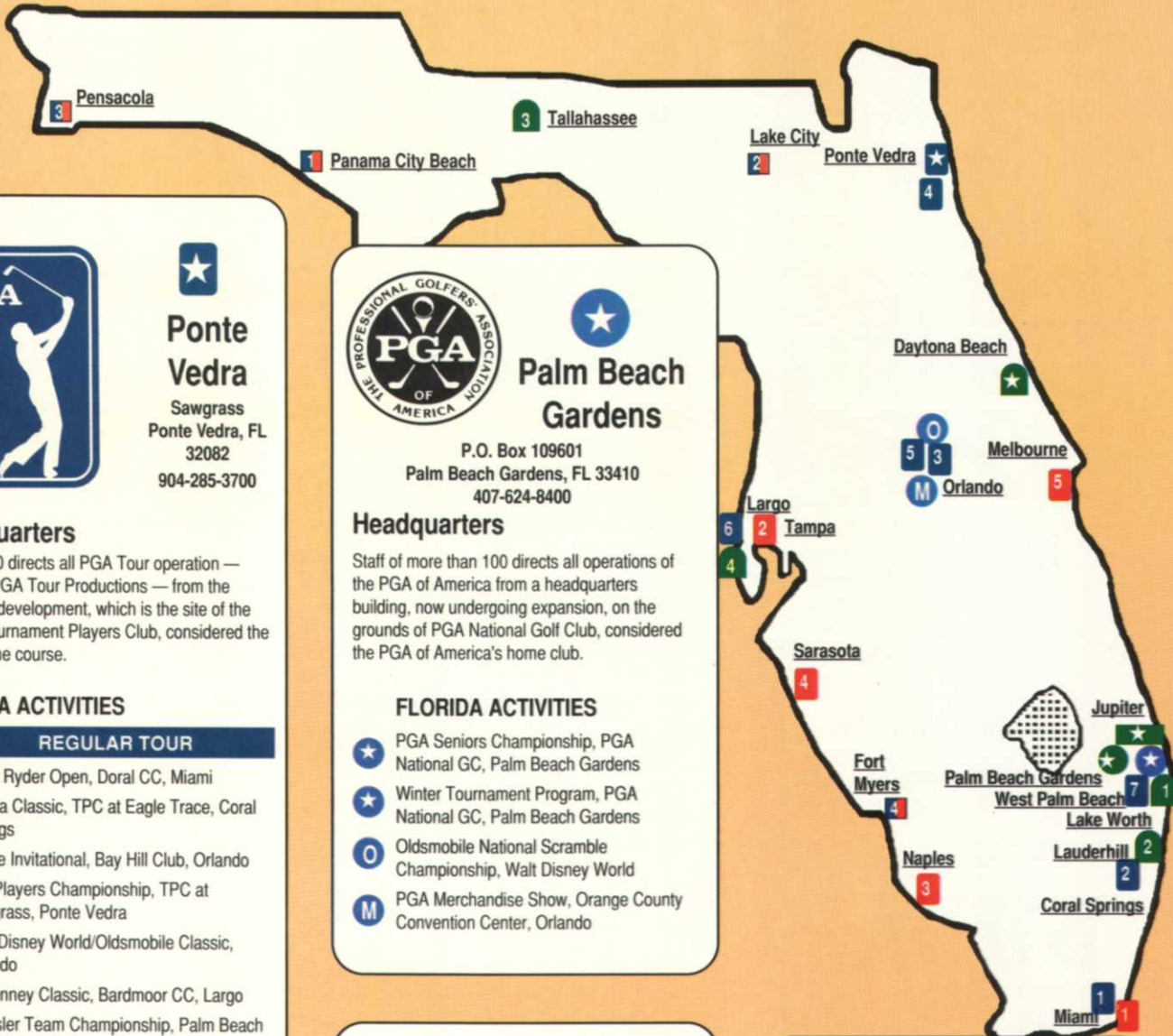
The state ranks seventh in total number of golfers and 22nd in participation — only 9.9 percent of the residents play golf — but first in senior golfers. And nobody else is in the Top Ten.

By themselves, Florida golfers raise the national average age of golfers by *two years*.

And when some very talented architects go digging after all that OPM buried in Florida's sand, it is amazing what spectacular golf courses are created by the spoils.

In most parts of the world, exclusive country club real estate is advertised by word of mouth and sold in mahogany-paneled offices.

(Continues on page 24)




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 32082
 904-285-3700

Headquarters

Staff of 350 directs all PGA Tour operation — including PGA Tour Productions — from the Sawgrass development, which is the site of the original Tournament Players Club, considered the Tour's home course.

FLORIDA ACTIVITIES

REGULAR TOUR

- 1 Doral Ryder Open, Doral CC, Miami
- 2 Honda Classic, TPC at Eagle Trace, Coral Springs
- 3 Nestle Invitational, Bay Hill Club, Orlando
- 4 The Players Championship, TPC at Sawgrass, Ponte Vedra
- 5 Walt Disney World/Oldsmobile Classic, Orlando
- 6 JCPenney Classic, Bardmoor CC, Largo
- 7 Chrysler Team Championship, Palm Beach Polo Club, West Palm Beach

SENIOR TOUR

- 1 Royal Caribbean Classic, Key Biscayne GC, Key Biscayne
- 2 GTE Suncoast Classic, Tampa Palms CC, Tampa
- 3 Aetna Challenge, Club at Pelican Bay, Naples
- 4 Chrysler Cup, TPC at Prestancia, Sarasota
- 5 Fairfield Barnett Spacecoast Classic, Suntree CC, Melbourne

BEN HOGAN TOUR

- 1 Panama City Beach Classic, Hombre CC, Panama City Beach
- 2 Lake City Classic, Lake City CC
- 3 Pensacola Open, Pensacola CC
- 4 Gateway Open, Gateway CC, Fort Myers




Palm Beach Gardens

P.O. Box 109601
 Palm Beach Gardens, FL 33410
 407-624-8400

Headquarters

Staff of more than 100 directs all operations of the PGA of America from a headquarters building, now undergoing expansion, on the grounds of PGA National Golf Club, considered the PGA of America's home club.

FLORIDA ACTIVITIES

-  PGA Seniors Championship, PGA National GC, Palm Beach Gardens
-  Winter Tournament Program, PGA National GC, Palm Beach Gardens
-  Oldsmobile National Scramble Championship, Walt Disney World
-  PGA Merchandise Show, Orange County Convention Center, Orlando




Daytona Beach

2570 Volusia Ave., Suite B
 Daytona Beach, FL 32114
 904-254-800

Headquarters

Staff of about 20 administers both the touring and teaching divisions from temporary headquarters at Indigo Lakes CC while a new headquarters building and home golf course is being built "across the road" (I-4).

FLORIDA ACTIVITIES

- 1 Oldsmobile Classic, Wycliffe G&CC, Lake Worth
- 2 Phar-Mor Inverrary Classic, Inverrary CC, Lauderdale
- 3 Centel Classic, Course TBD, Tallahassee
- 4 JCPenney Classic, Bardmoor CC, Largo




Palm Beach Gardens

4361 Northlake Blvd
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The builders retain the executive services of Don Rossi, retired executive director of the National Golf Foundation.




Jupiter

1150 South U.S. One
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 407-744-6006

A staff of about 35 coordinates the NGF's research, consulting and promotional activities from just north of Palm Beach Gardens.

Sarasota not only has the nation's best supply of golf courses, it also had the first!

Bless you, John Hamilton!

BY
BILL CAREY

New York columnist supported Florida's claim in 1935

Speculation was rampant in the national press about who really was first. Joe Williams, a sturdy practitioner of the sportswriter's craft, moved the question center stage on March 21, 1935, in a column he wrote for the *New York World-Telegram*:

The Yonkers adventure is, of course, completely authentic, but if any historian wishes to wager this club was the first to re-echo the piteous cry of, 'Boy, my niblick, please!' he should proceed with great caution and frugality. To come right out and say so, he should keep his money in his pocket.

Yonkers just wasn't the first golf club in America. The Sarasota Golf Club preceded Yonkers by at least two years. For some strange reason, this interesting historical item has just been brought to light. There is indisputable evidence that golf was played here (in Sarasota) in 1886. The widow of the man who built the course is still alive to confirm the facts.

She is Mrs. J. Hamilton Gillespie, a gracious lady who lives here in an attractive home. Her husband — very probably the father of American golf — died on a golf course here 12 years ago.

From scrubby beginnings, golf in Florida has blossomed into a multi-billion dollar business.

And isn't it interesting that the place where it all began now is recognized as the best-supplied market in the nation for public golf facilities.

Remarkable!

The man who started it all, a feisty Scot land developer named John Hamilton Gillespie, loved the game and had the vision to play it anywhere. Which explains why, in May 1886, in Sarasota,

Florida — a little fishing village, then part of Manatee County, on the Gulf of Mexico south of

Tampa — Gillespie hacked out the first two golf holes in Florida.

Pristine meadowland, surrounded by native palmetto scrub and pine trees, provided an idyllic setting for the introduction of the hallowed game to the new Sunshine State.

"Twa holes f'r practice an' they can be extended later," was the way Gillespie described them to friends.

Although well documented as Florida's first golf holes, there always remained the question, "Were they the first in the nation?"

In the annals of the U.S. game, five holes at Yonkers, NY, constructed in February 1888 by John Reid, another Scot, have been officially ranked first because the club has continued in operation since inception.

Reid creatively named his club St. Andrews, which sealed the deal for golf historians. The Yonkers location was a centerpiece of the American Centen-

nial of the game observed during 1988.

On May 8, 1939 — 53 years after Gillespie's holes opened for a short few year's play — the local *Sarasota Herald* newspaper published a special Golf News edition. A bold headline on the front page screamed: "SARASOTA BIRTHPLACE OF U.S. GOLF."

Gillespie, himself, wrote very informative articles about the state of the game for publication in the U.S. and Great Britain. His pieces reminisced about the early days of golf in Edinburgh and St. Andrews in his native Scotland. He went into great detail to explain how the great players of the day employed their special shots for repeated victories, the changes in equipment and social structure which provided women more liberal use of golf courses.

His papers and diaries touched on legendary reports of golf in the 1780s at Harleston Green in Charleston, S.C. There was no hard evidence, however, to prove the golf club was anything but a place for social gatherings. No golf holes ever were documented and certainly women weren't making inroads into the game.

Gillespie's action in Sarasota 103 years ago gave Florida a head start in a game which has developed into the state's major non-polluting industry. According to a recent National Golf Foundation study commissioned by the state's Department of Commerce, golf is very big business, expected to contribute an estimated \$5.2 billion to the state's economy in 1989.

The crowning jewel in the Gillespie legacy, however, as we enter the second century of golf in Florida, is that Sarasota, where the game began, leads the nation in providing public golf courses for residents and visitors. Sarasota County is Number One in the country on a list of the 10 best-supplied metro areas for public golf (See sidebar elsewhere), according to another NGF study. Sarasota is far in the lead offering an 18-hole golf course for every 715 players.

Gillespie the Scot and his golf, like the amber flow of another smooth export of his native land, gain favor with the passage of time.

Bless you, John Hamilton.

Bill Carey was executive director of the Florida State Golf Association for 24 years and a USGA committeeman for about the same period.

BEST SUPPLIED GOLF MARKETS

Metropolitan Area	Golfers Per 18 Public Holes
1. Sarasota	715
2. Fort Myers/Cape Coral	998
3. Naples	1,003
4. Glens Falls, N.Y.	1,183
5. Bellingham, Wash.	1,261
6. Fort Walton Beach	1,431
7. Elmira, N.Y.	1,446
8. Fort Pierce	1,448
9. Bradenton	1,472
10. Jackson, Mich.	1,499

Source: National Golf Foundation, Sept. 1, 1989

Florida cities lead nation

Sarasota leads six metropolitan areas in Florida listed among the nation's ten "best-supplied" with public golf courses, according to figures released by the National Golf Foundation Sept. 1.

The west coast city has only 715 resident golfers for each 18 public holes, a ratio that is twice as good as the sixth-best metropolitan area (Fort Walton Beach) and more than five times better than the national average of 3,677 golfers per 18 public holes.

Jersey City, N.J., is the nation's worst-supplied city, with 60,334 golfers for each 18 public golf holes.

Based on annual surveys, the NGF calculates "participation rates" — the percentage of the population which plays golf — for each of the nation's 357 Standard Metropolitan Statistical Areas and applies those rates to population estimates from the U.S. Census Bureau to determine the number of golfers in each metro area.

The folks around Sarasota aren't quite as well off as the figures suggest, however. The study is based on resident population. In winter, the area's population swells to 650,000 and many — if not most — of the nearly 400,000 visitors are golfers.

WORST SUPPLIED GOLF MARKETS

Metropolitan Area	Golfers Per 18 Public Holes
1. Jersey City, N.J.	60,334
2. New York City	21,562
3. Texarkana, Tex.	19,125
4. Houma/Thibodaux, La.	15,387
5. El Paso, Tex.	14,910
6. Montgomery, Ala.	13,020
7. Los Angeles, Calif.	12,421
8. Tuscaloosa, Ala.	12,192
9. Houston, Tex.	12,108
10. Albuquerque, N.M.	11,951

Source: National Golf Foundation, Sept. 1, 1989

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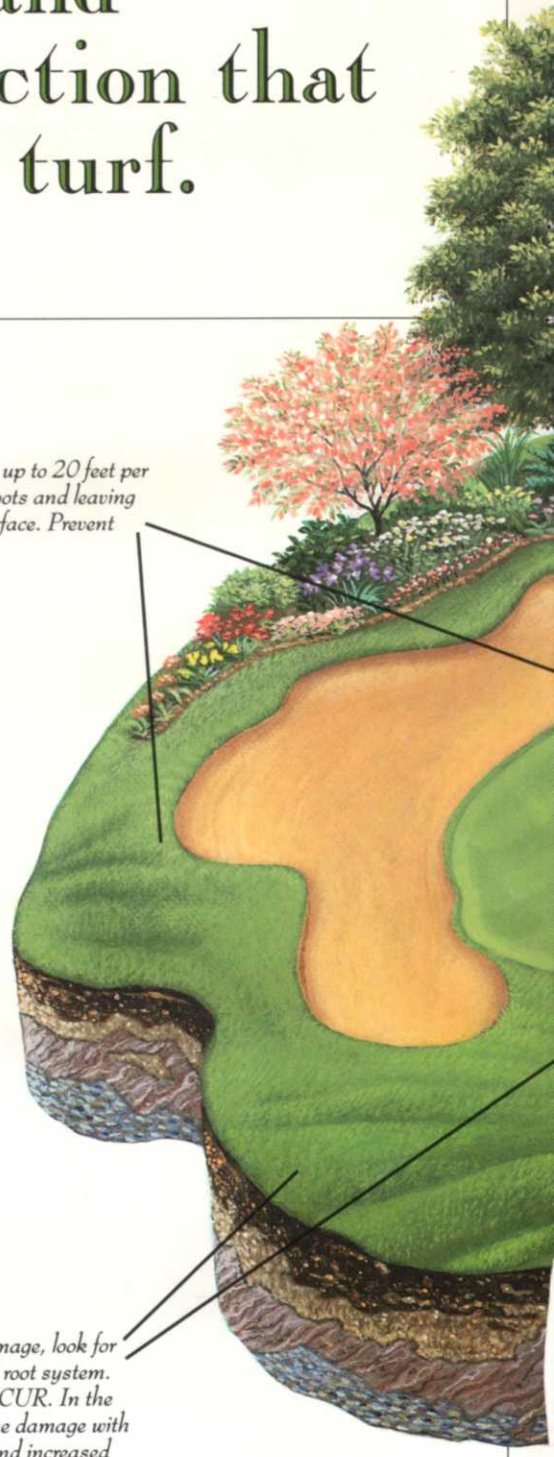
For *nematodes*, there's NEMACUR® Turf and Ornamental Nematicide. It has a 20-year history of preventing yellow grass by controlling more kinds of *nematodes* than any product on the market. To top it off, it lasts longer, eliminating costly multiple applications.

For *mole crickets*, there's OFTANOL® insecticide. It kills *mole crickets* so fast, they don't have a chance to crawl to the surface. Better yet, treatments cost about 30% less per square foot than the closest competitor.

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For more information, contact your Mobay distributor or Mobay sales representative. They can help you take your turf to new heights.

Nemacur Oftanol



Mole crickets can burrow up to 20 feet per night, feeding on grass roots and leaving mounds of soil on the surface. Prevent them with OFTANOL.

To identify nematode damage, look for wilted turf with a stunted root system. Then, treat with NEMACUR. In the interim, you can mask the damage with frequent, light watering and increased fertilization.