



STEADY GROWTH — Fifty years ago most golfers played at private clubs. Today the majority of golfers play at municipal and daily fee courses. Studies show that the 45% of U.S. golfers who normally play on municipal courses are confined to just 15% of the nation's golf courses. The growing interest in golf — with an increasing number of women and seniors playing regularly — will continue to foster new municipal and public courses, according to Roger Rulewich, president of the American Society of Golf Course Architects.



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Interest in Municipal, Public Golf Courses Continues to Build as More Play Games

Golf course construction costs vary greatly, but most communities or developers can count on spending at least \$1,250,000, not including the cost of the land, for a modern regulation-length golf course, according to Roger Rulewich, president of the American Society of Golf Course Architects.

Rulewich noted, however, that most municipal and public golf courses are showing healthy profits as more women and seniors play the game. He noted that some golf courses in the southeast and western regions that are open year-round are seeing annual net profits in excess of \$300,000.

"As more communities recognize the value of a golf course as a recreational facility for its residents, an attractive green belt, and as a magnet for tourists, golf course development will continue to boom," Rulewich predicted.

The ASGCA president said that a typical golf course construction budget, which will be affected by location and condition of land, might look like this:

* Construction of 18-hole course	\$1,000,000 to \$3,000,000
Maintenance Equipment	150,000 to 300,000
Maintenance Building	100,000 to 250,000
	\$1,250,000 to \$3,550,000

*Includes basic golf course construction (clearing, grading, construction of tees, greens and bunkers, seeding, etc.), irrigation system, shelters, bridges, cart pathways and service roads.

Rulewich emphasized that these cost figures are intended only as rough guidelines and do not include the cost of the land, clubhouse, other facilities, or architect's fee. In addition, maintenance costs usually run between \$100,000 and \$250,000 annually.

Costs will vary, Rulewich added, by section of the country due to different terrain, climate and number of playable days.

The ASGCA president stated that ordinarily about 150 acres of land are needed to build a regulation length golf course. Only 75 to 100 acres are needed for an executive course, while only 50 to 80 acres are needed for an 18-hole par three course.

Many new municipal and public courses are being built on landfills, flood plains, and other "undesirable" sites. Rulewich pointed out that an experienced golf course architect should be brought in early in the planning process so that the proper golf course site is preserved in the master plan.

Those planning to build a municipal or public course can obtain additional information by writing the American Society of Golf Course Architects, 221 N. LaSalle St., Chicago, IL 60601.

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Upcoming Events — Mark Your Calendar

September 21 — MAGCS meeting at Balmoral Woods G.C.

September 28 — ITF Golf Day at Deerfield & Highland Park G.C.

October 8 — MAGCS meeting at Woodstock C.C.

October 23 — Dinner Dance at Riverside G.C.

November 4 — MAGCS Annual Meeting at Cyprus Inn

November 9-11 — Penn State Turf Conference

December 8-10 — NCTE at Pheasant Run, St. Charles, IL

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Warren Bidwell writes that on August 9th he was at Stone Mountain, Georgia to participate in the Georgia GCSA two day seminar. He talked on, "Green Seed" and "Bentgrass Stress". In October he will be going to the Palm Springs for a chapter visitation during the overseeding time there. In early November he will be on the Carolina Turf Conference program and the Southwest Turf Conference in Memphis. Then in December he will be on the Texas Turf Conference program in Houston.

Extension Specialist Picked at Purdue

Mr. Jeff Lefton has joined the faculty of the Department of Agronomy at Purdue University as the Turfgrass Extension Specialist. Mr. Lefton earned his B.S. and M.S. degree in Agronomy from Purdue University with a specialization in turfgrass science. Following his graduation in 1973 Jeff was responsible for starting the two year turf program at The Ohio State University Agricultural Technical Institute in Wooster, Ohio. In addition to his duties as director, Jeff taught several courses pertaining to turfgrass management. In 1975, Jeff joined the ChemLawn Corporation as Regional Technical Manager for Indiana and Northern Kentucky. As Regional Technical Manager he planned pesticide and fertilizer programs for 11 ChemLawn branches, developed and conducted training seminars for employees and wrote technical fact sheets for homeowners. Jeff also served as a liaison between the ChemLawn branches and various governmental agencies.

As the Turfgrass Extension Specialist Jeff will devote 70 percent of his time to extension activities and 30 percent to research. His extension efforts will be directed toward professional turfgrass managers through conferences, field days and seminars. He will be responsible for organizing and planning the Midwest Regional Turf Conference and the Turf Field Day. Jeff will also coordinate both Turf and Ornamental Pesticide Use Seminars. With Jeff on staff we hope to be able to offer more half-day seminars on specific topics, such as the recent Black Layer Symposium. Jeff will also focus on training county extension personnel and providing current information to extension personnel through bulletins and seasonal update on current problems. Jeff will be allowed to develop a research program based on his interests and expertise. His research will complement that of the entire turf program. His office is in Room 2-446 of Lilly Hall and he can be reached at 317/494-9737.

We are pleased that Jeff is a part of the Department of Agronomy and feel he will be an attribute, not only to the turf program, but to the entire Department and the University. Jeff's expertise in lawn care will be a valuable asset to the turf program. His contributions will help Purdue University maintain an excellent turf program.

Deerfield and Highland Park to Co-Host Northern ITF Golf Day

September 28th will be a fun filled golf day for ITF fund raisers. We are very fortunate to have Superintendents Al Pondel and Tom Robinson hosting their fine golf courses this year. This cooperative effort, of two courses in close proximity, will not only attract more golfers, but will make a popular event even more enjoyable as the field can be split to 60-80 golfers per course. As many of you already know, last year's event at Bryn Mawr and Evanston attracted almost 165 people. Although we had a perfect day, it was a four to four and one-half hour round of golf. This year's event has been designed to make the golf go as quickly with plenty of time to socialize at the end of the day.

Here is the run down of the day's event:

— Tickets can be purchased from ITF headquarters in advance for \$75. This includes: lunch, golf, cart, 11:00 a.m. shotgun start and pig roast at Deerfield Golf Course that evening.

— Prizes and raffles for golf clubs are part of the event; so bring along some cash for ITF research.

— This is the second annual Dom Grotti trophy event for Superintendents and their Assistants; so get your handicaps registered for a partner's best ball. A fine traveling trophy will go to the winner. Last year's winners were Superintendent Carl Hopphan and Assistant Superintendent Terry Dilner.

— Guests are welcome, but tickets must be ordered and paid in advance. Sorry, no refunds.

— Reservations and golf course assignment will be handled through ITF Headquarters, Russell Schneider. Phone 644-0828.

At this goes to press it is on again/off again for the Western Open at Butler National. The Chicago area was hit by record rains which flooded many, many courses. Next month we will try to cover the flooding story — so send pictures and horror stories to me by September 10th.

Aloha & Mahalo

by Edward Wollenberg, Retired Supt.

Aloha:

Trying to take advantage of the remaining days the good Lord will allow me, my wife and I have been on almost a continuous hiatus since my retirement. Raising a family, college tuition and insufficient funds always seemed to have a priority over vacations and R & R during your early probing years. But how sweet it is to finally have my fling.

We just returned a few weeks ago from the land of pineapples, rolling surf, sandy beaches, beautiful smiling young ladies, hula skirts, and flowers, flowers, and more beautiful flowers. We were there on May Day here on the mainland, which is known as Lei Day in Hawaii.

No modern society on the face of the earth, I'm convinced, seems to celebrate its environment in quite the way Hawaii does.

That celebration, to some degree, takes place daily. But on Lei Day, it takes on the trappings of obsession.

Every plant species imaginable is considered, and most are included in the varied splendors people wear around their necks, or on their hats, or are used to adorn their desks or counters.

There is really no way to explain it to outsiders, and you have to be there in person to see and fully understand this spectacle.

They go out and get pieces of all kinds of plants, put them together and just wear them. All different kinds. They weave them together, end to end, side by side, and sometimes in whorls, and make wreaths. But it's not only flowers. They take

leaves, too, and fold them and sew them into strands or just tie them together. Also ferns, and even vines that have no leaves.

They had lei contests all over the islands, some of which were different from the annual contests they have every year. People were doing entirely new things with the lei. Things that some of the old-timers had never seen.

The standard, of course, were there. Like the fat, pale green mokihana berries with its smell of anise, in twisted strands alone or with the small-leaved Kauai maile. Also whites, yellows and pinks of the standard plumeria. And, of course, the many colors of the hibiscus plant, of which the red hibiscus is the state flower.

Many of the lei makers refuse to deviate from the standard plants, while others were more creative and made many combinations. Some cut and folded croton leaves and combined them with the end of fishtail ferns. And others fashioned little artificial roses out of ti leaves and green roses out of ferns.

I guess there is no end as to what they can braid together with time and patience. It was a part of the culture I enjoyed very much, and these artistic people weaving them together seemed so happy and effervescent. And the air was thick with the smells of the many flowers at their disposal to keep alive and continue a custom and tradition synonymous with the islands.

My mouth watered after leaving, and just thinking about it now, from the intensity and richness of it all. That wonderful Hawaiian obsession.

Mahalo.



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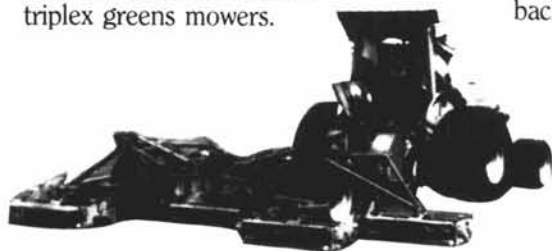
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Half-Rate Tank Mixes are Turfgrass Management's Equivalent to 'Russian Roulette'

by Houston B. Couch

Professor of Plant Pathology

Virginia Polytechnic Inst. & State University

Mixing half low label rates of fungicides for turfgrass disease control in an effort to avoid resistance or increase disease control effectiveness is a waste of money and an open invitation to disaster. When the potential for resistance to a fungicide exists, it is important to rotate fungicides at full label rates. This procedure will hold the population of the resistant strain of the fungus to a minimum. When inadequate rates (i.e., half rates) of the alternate fungicide are used, a high population of "escapes" is allowed to develop and the disease can get out of hand quickly. Using half low label rates of fungicides as tank mixes, then, does not deter resistance — in fact, it is the most effective way to build up resistance to a fungicide.

Also, there is no published scientific evidence that tank mixing two or more turfgrass fungicides at half rates for control of the same target disease will (i) be more effective than either of the materials used alone at half rates, or (ii) just as effective as either material used alone at full label rate. In fact, the data to date shows just the opposite.

At Virginia Tech, we have tested half label rates of all of the commercially available fungicides labeled for the control of

Sclerotinia dollar spot. In these trials, we used low label rates alone, half low label rates alone, and various tank combinations of each of these materials at half low label rates. There was no additive effect when these fungicides were used at half rates as tank mixes.

Research at Penn State on Pythium blight control has shown that there is no additive effect when Subdue and Banol are combined in a tank mix at one half label rates. Results from this program published in the 1984 and 1985 American Phytopathological Society Fungicide and Nematicide Test Results showed that Subdue and Banol used as a tank mix at half label rates or alone at half label rates gave the same level of Pythium blight control. There was no additive effect when Subdue and Banol were used at half rates as a tank mix.

The take-home lesson from this is that mixing two or more fungicides at inadequate rates will result in inadequate disease control. When disease pressure is of sufficient magnitude to require full label rate, and a half low label rate combination is used, the disease will not be controlled. If the disease is Pythium blight, the consequences can be disastrous. Furthermore, the use of a fungicide at half label rates will increase the possibility of developing resistance — not reduce it.

When considered either way, then, the use of half low label tank mixes of fungicides to either increase the effectiveness of disease control or to reduce the possibility of resistance is an exercise in futility.

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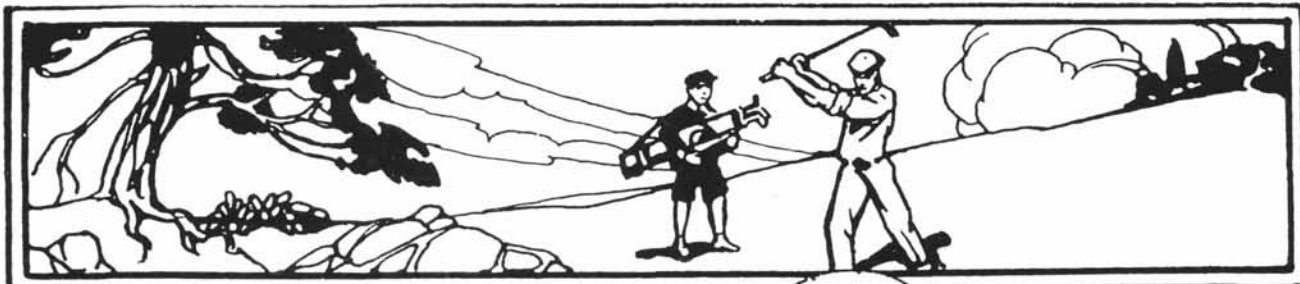
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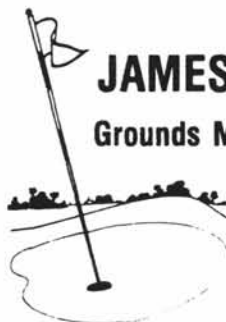
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GCSAA to Co-Sponsor International Amateur Handicap Championships

Donald E. Hearn, CGCS, president of the Golf Course Superintendents Association of America (GCSAA), today announced that the association plans to co-sponsor the upcoming International Amateur Handicap Championships.

"The amateur golfer obviously plays a vital role in the popularity of the game," Hearn said. "This championship format provides any skill level a chance to compete in a fun, 72-hole competition, just like the professional golfers."

Hearn cited a National Golf Foundation study showing that there are 18 million golfers in the United States today and that 4 1/2 billion rounds of golf were played last year.

A field of 600 amateur participants from the United States, Australia and several European countries is expected for the tournament.

The new Tournament Players Club at Scottsdale — site of the Phoenix Open — the Palm and Pine courses at McCormick Ranch and the Arnold-Palmer designed Scottsdale Country Club will host the championship play. The competition will take place Oct. 25-31.

"This event also provides the GCSAA with another firsthand opportunity to promote the goals and ideals of our membership to the participants," Hearn added.

GCSAA plans to extend its "Challenge for Excellence" hole-in-one competition to participants on the final day of the tournament. The challenge will offer a prize of \$5,000 to the first player to ace a specified hole. The actual distribution of money will be \$1,000 to the player, \$2,000 to the GCSAA Scholarship & Research Fund and \$2,000 to a charity chosen by the player.

"We're delighted to have such an outstanding organization like the golf course superintendents joining our sponsorship ranks," said Doug Mason, founder of the event and director since its inception in 1984. "GCSAA plays such an important role all over the world in making and keeping courses playable and affordable to the general golfing public that it's a natural affiliation."

Among other sponsors for the International Amateur Handicap Championships are Kodak, Foster's Lager, Continental Airlines, America West Airlines, Registry Resort, Foot Joy, Destination West, Iron Horse Bar & Grill, Pinnacle Peak Patio and K. Michael.

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