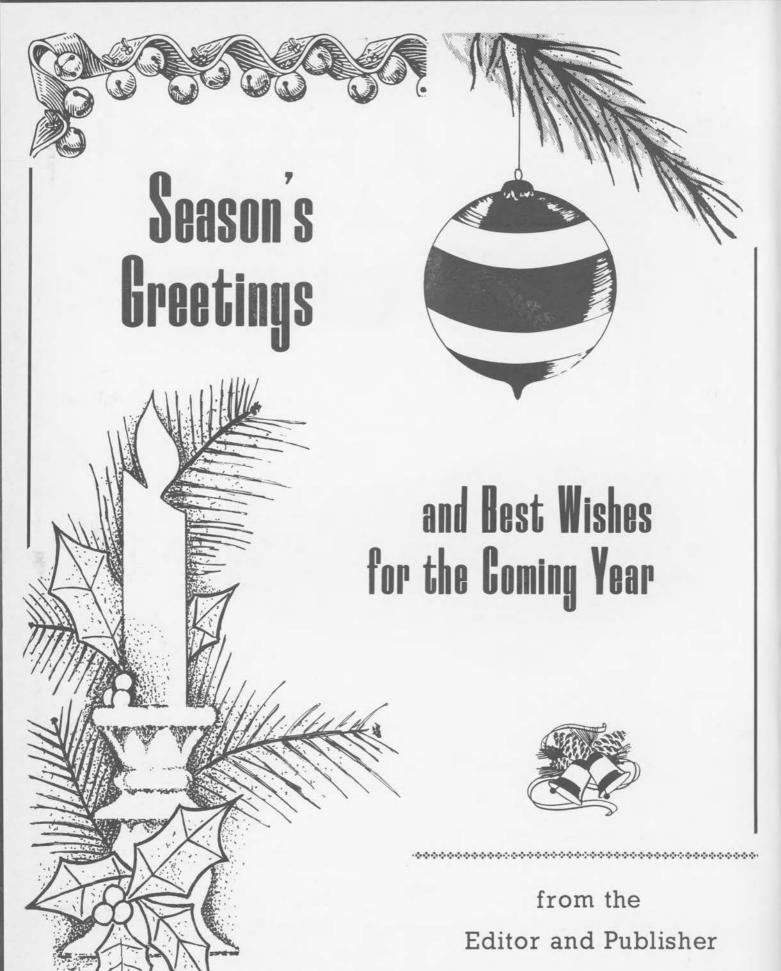
November/December 1988



OFFICIAL PUBLICATION OF THE MICHIGAN & BORDER CITIES GOLF COURSE SUPERINTENDENTS ASSOCIATION





PRESIDENT'S MESSAGE

Another year is coming to a close. None of us will forget 1988 for a long time. With summer heat and drought and autumn rains, we can hopefully look forward to a slower winter season.

On October 18, we had our annual business meeting at Maple Lanes Golf Club. I would like to thank Peter Roehl and Greens Superintendent Paul Lolbe

for their hospitality.

We had two director changes. Newly elected were Jim Eccleton and Steve Kolongowski. Welcome aboard guys. The two members leaving were Jim Timmerman and Roger Gill. Jim Timmerman, who was the Membership Chairman, increased the membership during his term. Thank you, Jim for your hard work. Roger Gill served as Education Chairman. Thank you, Roger for setting up all those meetings and speakers, a job well done.

There was a dues increase voted on and passed. New dues will be: Class A \$40.00, B \$40.00, F \$70.00,

S\$15.00, D\$35.00.

The Executive Board had a meeting with the G.A.M. Greens Committee to discuss our spring seminar. Tom Mason will be Chairman. If there are



"A PATCH OF GREEN"

Published Bi-Monthly by the MICHIGAN AND BORDER CITIES GOLF COURSE SUPERINTENDENTS ASSOCIATION

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Printed at BLAKEMAN PRINTING CO., Fraser, Michigan (313) 293-3540 any members that would like to have a topic discussed, please contact Tom. There are also some clubs that in the past have donated the dollar per member to the M.T.F., but for some reason this year did not. If this has been an oversight, would you superintendents check with your clubs to see that they make this important donation to M.T.F.

We thank those of you that did donate to the

M.T.F., G.A.M., and the MBCGCSA.

As the year does come to an end, I want to remind all of you of our Annual Christmas Party. This year it is at Detroit Golf Club, Friday, December 9. See you all there.

Seasons Greetings to you and your families.

Charles Gaige President, MBCGCSA



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GREEN IS THE COLOR OF GOLF

HISTORY OF TURFGRASS MANAGEMENT

by William H. Bengeyfield, National Director, USGA Green Section

Early on, "green" has been the color of golf. In those early days when Dutch Traders called St. Andrew's (one of the world's largest trading markets and fairs in the 12th Century), the greens Linksland between harbor and town was ideally suited for Het Kolven - a popular ball and stick game from the Netherlands. The sandy coastal soils; the smooth wind-blown, rolling terrain and the soft, springy turf sustained by howling gales and gentle rains produced the Green Links. Natural too, were the pits of sand where sheep huddled for shelter, later to become hazards in the evolving game of "golf". Through the centuries the game cast its spell over these people and their land and eventually over the Earth.

These were simple times. The implements and balls of the day were as simple as the playing conditions crude. But the game persisted from the 12th Century on and by 1700, townsfolk of St. Andrews called the narrow strip of land leading to the harbor and the sea "The Green". The course as known in this way for generations. There they would tee up with a handful of sand, hopefully drive the leather-wrapped feathered ball to the "fair-green" all the while keeping it out of the surrounding heather and mass of entanglements. Once on the fair-green, the next target was on the "play-green", a roughly prepared area with an equally roughly prepared hole in it. Sometimes the hole was so deep it took a long arm to retrieve the expensive ball. In early "golfe", the winner was determined by the number of holes he won in a contest, not by the total number of strokes taken during the round. Whether it be 5 or 15 was of minor concern, just as long as he "won the hole".

It was in 1754 - a rather recent date in the annals of golf, that the Royal and Ancient Golf Club was formed. Since the beginning of time, the Old Course has always belonged - and still does - to the citizens of St. Andrews. The Royal and Ancient Golf Club sought playing privileges there and in return worked out an agreement with the town fathers to pay for the maintenance of the course. This raises the interesting historical point, at least from the grass growers perspective. The Royal and Ancient was actually concerned with the care and maintenance of the turf on the Old Course fully 100 years before assuming responsibility for The Rules of Golf! In other words, course conditioning received very early attention. It was not until 1892 that the SR&A became the one and only governing body for the Rules (Unification of the American and British Codes of Rules did not take

place until 1951.).

By the end of the 1700's, the greenskeepers came into being. Not unlike today, they were charged with making things better for the golfer. From Horave Hutchinson's book, "British Golf Links", (1897), there appears this record from the Aberdeen Golf Links on July 6, 1820: "The secretary was instructed to pay Alexander Monroe at the rate of L4 (approximately \$15) per annum for taking charge of the Links and providing accommodation for the member's club boxes, and for that sum Monroe is to pay particular attention to keeping the holes in good order. If that was not bad enough, the above allowance was diminished in 1822 to L3, an alteration which may be regarded as an illustration of the well known prudence of the Aberdonians in financial matters." Long before there was golf on the western side of the Atlantic, the Society of Golfers at St. Andrews (1832) decided to rebuild some of their "old greens". They enlarged them to the enormous and famous double greens of St. Andrews as we know them today!

And so the care of "The Green" had its beginning. The early golf professionals frequently became the greenkeepers as well. Neither job was known for its security even in those days. If a man could win at competitive golf it was all to his credit. But he would also be wise to know howto make club heads or golf balls or care for the course just in case.

Old Tom Morris, still considered the Grand Old Man of Golf and four times winner of the British Open, became greenkeeper of St. Andrews in 1865 and continued until 1904. He had two rules for his maintenance program: "Maire sound, Honeyman" was his cry for his assistant Honeyman to apply evermore topdressing of sharp sand to the greens and fairways in order to "maintain the character of the grass". His second rule was, "Nae Sunday Play. The course needs a rest if the golfers don't." As a tribute to Old Tom Morris for his care of the Old Course, the first patented hole cutter developed by Charles Anderson was presented to him in 1869.

Golf was now sinking its roots in this country and around the world. It caused people to take an increasing interest in grass. The first turf garden in America was established at Manchester, Connecticut in 1885 and the first turfgrass research was recorded in 1895 at Kingston, Rhode Island. Grazing sheep were still used in the early 1900's for mowing and nurturing the green cover of golf courses. But the

CONTINUED PAGE 25





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EVANS SCHOLARS HOUSE

The Evans Scholars program recently reached a milestone in their 40 year history when the dedication of a new Chapter House took place on the campus of Michigan State University on September 17, 1988. Since 1948 hundreds of caddies from Michigan have received their college education through the efforts of the Western Golf Association through which the Evans Scholars Foundations functions.

When the building construction was completed the Evans Scholarship Committee solicited support from the local turfgrass Association to aid in the landscaping and sodding of the grounds. The MBCGCSA, through the efforts of Clem Wolfrom, Jim Eccleton, Chris Dayne, Bruce Wolfrom, Dwight Johanningsmeier, Fritz McMullen, John Mulvaney and Leo Pechette placed over 1,000 yards of bluegrass sod and produced an instant lawn for the house. Don Vidosh, from Green Acres Sod Farm supplied the sod, a fine gesture on his part. The sodbusters took time out of their busy schedules to provide the house with an instant lawn which included the raking and grading of the surface prior to sodding.

Others contributing their time and efforts were as follows:

ionows:

Jim Scott, who provided the landscape plan. Kurt Kraley from Wilkie Turf Equipment Division donated the irrigation equipment.

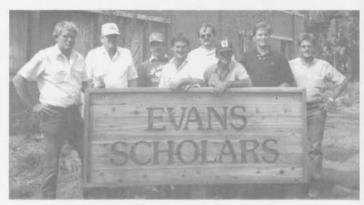
John Green installed the irrigation system.

Dan Bywalec of D & B Landscape donated the labor to plant the shrubs and trees and solicited nurserymen and supplies for all of the plant material such as mulch, flowers, etc. Dan put a lot of effort into this project.

Congratulations to all of you who put the time and

effort into such a worthwhile project!

Kevin Dushane



MBCGCSA CREW responsible for sodding Evans House lawn.



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USGA TURFGRASS INFORMATION FILE

The USGA Turfgrass Information File (TGIF) provides computer-based bibliographic access to published materials relating to turfgrass research and management. The file is operated as a part of the Turfgrass Information Center at the Michigan State University Libraries. This USGA Turgrass Research Committee project, in cooperation with the GCSAA, first became operational in August of 1984 and now includes more than 12,500 references, most of which (approximately 80%) include abstracts.

FILE PURPOSE AND USES

As a file designed to support the efficient retrieval of research results, TGIF can be exploited to identify source documents discussing particular grasses (or cultivars, for that matter), cultural practices, agents, research methodologies, environmental conditions, etc., alone or in combination. It is also useful as a reference tool, for example, in tying together disease nomenclatural changes, surveying the state of knowledge on a particular insect pest (in the turf context), or quickly identifying who has conducted research on particular concern. In many cases, the abstracts themselves can provide management guidance based on summary conclusions. It is unbeatable at identifying that, "I can remember seeing an article on that about a year or so ago. . .," item, and quickly, too.

FILE SCOPE AND CONTENT

To build the file, current published literature, from over 100 journals and publications, is selectively processed, including these kinds of sources:

RESEARCH: Agronomy Journal, Plant Disease, Phytopathology, Crop Science, Canadian Journal of Plant Science, Journal of the Sports Turf Research Institute, etc.

PROFESSIONAL: USGA Green Section Record, California Turfgrass Culture, Golf Course Management, Greenmaster, etc.

TRADE: Landscape Management, Grounds Maintenance, ALA, SportsTURF, etc.

In addition, online files and bibliographies from the National Agricultural Library, Commonwealth Agricultural Bureaux (U.K.), Biological Abstracts, etc. will be reviewed regularly to include materials from sources not usually reporting turf research.

Currently over 1200 different serial titles are represented in the database. Included are journals, conference proceedings, research annuals, newsletters, and extension bulletins in addition to the books,

papers, theses and dissertations, and special publications that make up the remainder of the file. Over 95% of the file entries have been published since 1968, reflecting the emphasis on recent materials.

Though significant results can be retrieved on most turf topics, it must be noted that the file continues to be "under construction" and cannot be considered "exhaustive" at this time. Coverage of the literature since 1980 is most complete, with the 1972-1979 period less well represented.

THE SETTING

Designed to provide intellectual access to the existing O.J. Noer Memorial Turfgrass Collection at the Michigan State University Library, TGIF is but one element in a three part cooperative effort to develop a Turfgrass Information Center (TIC) at MSU. The O.J. Noer Collection, based on O.J. Noer's personal library and supplemented by gifts from many others, has now grown and become recognized as one of the best in the country. The O.J. Noer Foundation continues to provide support for the purchase of historical works and further additions to the collection from a variety of sources are encouraged on a continuing basis. The online index to the literature, TGIF, is sponsored by the USGA Turfgrass Research Committee. Both the collection and file are operated by the MSU Libraries, which finances and implements the collection development responsibilities.

SEARCHING THE DATABASE

The database can be searched by a variety of means, including (as examples only): the presence of a word or words in a title, abstract, or as an assigned index term; author or authors; journal which the item appeared in; time period of publication, by year ot years; refereed sources only, or any combination of qualifiers. The database is constructed within the STAR Database Software, which features many search capabilities found only on mainframe-mounted and commercially-operated databases. This flexibility, combined with the speed of execution, makes online searching a powerful aid.

SEARCH RESULTS

Following execution of the constructed search strategy, records can be printed in a variety of formats, usually including basic bibliographic information (author, title, source, etc.), the descriptors assigned as index terms to the article, and an abstract, which usually summarizes methodology, results, and conclusions. Customized output formats are also possbile and can be controlled by users.

CONTINUED PAGE 24

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Rock Irons, Roller Bases and Harsh Reality

by JAMES A. LATHAM
Director, Great Lakes Region, USGA Green Section

The 1988 season is one of great challenge throughout the Great Lakes Region, mostly dealing with water (or lack of it) and water management (or lack of it). Early on, an unfortunate few courses relearned the vicious nature of crystalline water associated with ice sheet damage or freeze/thaw problems which caused winterkill of Poa Annua. Not too long after the damage became evident, the pattern was set - this was NOT to be wet season. Few folks missed the opportunity in May to let courses dry down to suppress the vigor of Poa Annua. There was no warm, spring rain to get things started, though, and stolon growth on greens was slow to develop.

Irrigation became an all-encompassing chore at all but a handful of courses and water was applied with reckless abandon during the two or three months of southwestern weather we enjoyed. High evapotranspiration kept the pumps going and the sale of hose and rollerbase sprinklers reached an all-time high. Where an adequate supply of water was at hand and where there were enough hands to supplement irrigation systems, things couldn't have been better. Fungicide inventories gathered dust and trade-ins were being discussed . . . until the last week of July or

the first week in August.

What hit the fan then was normal Midwestern weather - humidity and continuing heat. All of a sudden the applied water didn't go away. It hung around in the soil or thatch to act like a heat exchange out of commission. It kept absorbing daytime heat to keep things cozy at night. The outward re-radiation of heat at night was reduced and our temporary desert climate was replaced by a sauna. The fungicide folks were slovent again. Poa Annua began to make its summer trip south, which is really unfair after all the water that had been poured on to keep it alive for two months. Reality returned.

About then, I wondered why we spend so much time, money and effort on the control of Poa Annua, but when it goes away without any help why do spend so much time, money and effort to replace P.a. at the inopportune time that it departs? Or is it a demand by golfers that green is the only acceptable color, no matter what? Hopefully, Green Committe people recognized that all things in nature are beyond the total control of people and despite our most up-to-date practices, some plants just sicken and die. And rather then becoming paranoid about losses they will remain content with the turf that was saved. The spread of bentgrass in fairways did keep on keeping on - with less competition, so there was a bright side to the P.a. losses.

The true unfortunates this year are those whose water supply ran out, was cut off or perhaps worse yet, those whose water supply went bad. The contamination will have a prolonged effect on the soil. This did happen to courses in Canton, Illinois with sudden salt buildup and in Big Sky, Montana where the sewage effluent used for irrigation became a cause of turf deterioration. Both of these cases are reminders to have water analyses done every couple of years to track the condition of irrigation water. Had it not been for Brad Anderson's annual check at Canton, it is likely that the sudden rise in salinity would have gone unchecked until the turf and trees were dead or severely damaged.

Water woes invoke the inevitable comments about poor drainage. Continued observations prove that greens built under exact Green Section specifications continue to perform admirably. Laboratory determinations continue to show that many peats are unfit for use with sands acceptable for putting green use because they have too much silt and/or clay in them. Like water, topdressing mixes should be checked

periodically.

Incidently, the USGA session at the North Central Turf Expo at Pheasant Run will feature all of the facets of Master Planning plus a description of the total renovation of the North Course at Detroit Golf Club this fall, by Superintendent Clem Wolfrom. Superintendents who are interested in course improvement should encourage their Committee Chairman to attend this morning session on Tuesday, December 6.

Localized Dry Spots (L.D.S.) were prevalent again this year in sandy mixtures - even on one new Wisconsin green in April, before it had ever been mowed. L.D.S. were also prevalent on a set of Wisconsin greens that had never seen sand or much topdressing of any sort, with a two inch thatch under

the playing surface.

This brings us back to Rock Irons. There is a nice little course near the headwaters of the Missouri River, where the largest selling item in the golf shop are Rock Irons. The fairways are so stony that no one wants to break their new clubs - so they buy used 4, 5 and 6 irons in the worst areas. If they break 'em they just throw away the pieces and get another. That course, by the way, has a very active caddy program based on the Western Golf Association setup that is doing exceptionally well. How many 9-hole courses have 12 fully-qualified Class A caddies available?

One final note on quality at the end a very stressful

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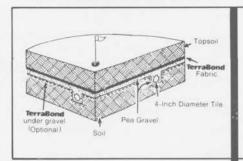
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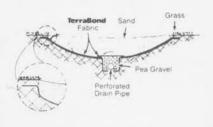
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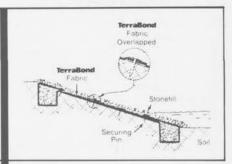
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GETTING ORGANIZED: HOW TO SCHEDULE YOUR DAY

If your workload keeps growing as fast as your workday seems to shrink, maybe your problem is a

lack of organization.

A few minutes spent in planning can help you get more accomplished each day and help you run your operation more efficiently. Not everyone can be an efficiency expert, but even the most disorganized person can get more done by planning his work more efficiently. These eight suggestions can help.

1. At the end of each workday, take a few minutes to schedule the next day's activities - phone calls, meetings, interviews, and projects. Make a list, with the most important things to be accomplished at top. As other important things come up, you may have to change your plans, but having a list can help you keep your priorities in mind.

2. Schedule work according to your own personal efficiency. Not everyone works at peak efficiency first thing in the morning, so you should schedule the important things for a time when you are at your

sharpest.

3. Decide whether you would rather tackle the tough projects first and get them out of the way, or ease into them by finishing the smaller tasks first.

4. Tough problems take concentration, and it is

impossible to concentrate when you are continually interrupted. If you know you are going to have to deal with a thorny problem, set aside some time for it. Let everyone know that you don't want to be disturbed and make yourself work at it.

5. Use an action request form for assigning tasks to your subordinates. It should include a description of the job, a deadline, and a person responsible for its completion. This system makes for more paperwork, but it does make assigning jobs easier and gives you a

written record for reference.

6. Take close look at the things that make up your day. Some of them may be merely habit and no longer necessary. Cut ruthlessly. A collection of minor tasks can take valuable time away from important duties.

7. Group similar tasks into one time period. If you have to do similar things at different times during the day, try doing them all at once. Switching your concentration from one job to another can take more

time than you think.

8. Don't agonize over decisions. There is a difference between spending a reasonable amount of time considering alternatives and delaying a decision

CONTINUED PAGE 17

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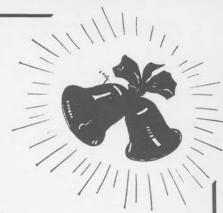


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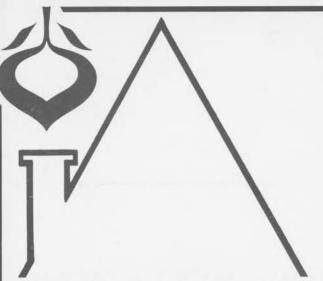
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A POEM

I planted grass into the ground. It thrived, and grew by leaps and bounds. My fairways, they looked really swell; The greens, the tees - they all did well. But ALAS - it's here - that dreaded scum -The thing that we call pythium!! The blue, the bent, of course the rye -I'm sure that now they all will die. We spray and spray, and spray some more, The water system works no more. Equipment groans but trudges on Even though the Poa's gone. The thunderstorms keep rolling in, WAIT! Yes, here comes the hail again. The rivers arise, the creeks all flood, The course is lost in tons of mud. The stag was cancelled yesterday, Just one guy showed up to play. Don't fret or cry, be brave and strong, Summer doesn't last too long. The days are short, the nights - they cool, Leagues are over, they've closed the pool. And finally, I can sleep at night To dream of when I'll win this fight. Chin up!! my friends, don't be so sad, It really isn't all that bad. When things look tough and really bleak OOPS!! I have to go - another leak.

Robert J. Hall

ROCK IRONS, CONT.

summer. The Chairman of the USGA Senior Amateur Championship Committee told the contestants at the contestants dinner September 19, that the Milwaukee Country Club was only the second course in his 28 (or 38) years of attending championships, which required no white paint. The only directive that the USGA's Tom Meeks gave to Superintendent Danny Quast was "Don't Change Anything!"

And that was "The Summer of '88." Some good,

And that was "The Summer of '88." Some good, more bad. As we improve our understanding of water management under the environmental and cultural stresses to which golf turf is subjected, we will be better able to cope with similar problems in the future.

GETTING ORGANIZED, CONT.

because it is an uncomfortable one.

If you have to make a decision, make it, the only way you can avoid making a decision is by waiting until you have only one alternative remaining. The last alternative may be the worst of the bunch.

These eight suggestions may not make you an efficiency expert, but they may help you reevaluate your work habits. Not everyone works the same way, but it is important to find a system that works for you. Set your own schedule and follow it. You will be surprised at how much you can accomplish.

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Juan "Chi Chi" Rodriguez, a superstar on the Senior Tour, has been selected to receive the Old Tom Morris Award from the Golf Course Superintendents Association of America (GCSAA). Rodriguez is the seventh recipient of the award, one of golf's most prestigious.

The award will be presented to Rodriguez on February 13, at the banquet closing GCSAA's 60th International Golf Course Conference and Trade Show, which begins February 6, in Anaheim. More than 2,000 people are expected to attend the banquet including dignitaries from every major golf association.

GCSAA President John A. Segui, CGCS, said, "Mr. Rodriguez has truly demonstrated the characteristics so commonly associated with Old Tom Morris. He has dedicated his life to promoting the game, but more so, he has dedicated his life to helping his fellow man."

Rodriguez joins Arnold Palmer, Bob Hope, Gerald Ford, Patty Berg, Robert Trent Jones, Sr. and Gene Sarazen as recipients of the coveted honor.

The Old Tom Morris recipient is nominated and selected by the GCSAA Board of Directors.

A NEW MEMBER

I am a new member.
I see you at the meetings, but you never say "Hello",
You're busy all the time you're there,
With those you already know.

I sit among the members, But I'm a lonesome guy, The new ones are as strange as I, And the old ones pass me by.

But - darn it! You folks asked me in, And talked about fellowship, You could have stepped across the room, But you never made the trip.

Why don't you nod and say hello, Or stop and shake my hand? Then go and sit among your friends, Now that I'll understand.

I'll be at your next meeting,
A nice time I hope to spend,
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OVERSEED TO COMPETE WITH POA ANNUA?

by Dr. A. Douglas Brede Research Director, Jacklin Seed Company, Post Falls, ID

Presented at the 41st Northwest Turfgrass Association Salishan Lodge, Oregon September 21-25, 1987

Sometimes even the best cared for turf can turn bad. In spite of careful irrigation, mowing, traffic control, fertilization, and pest control, turf can sometimes deteriorate to the point where a decision is needed: Does the expense of maintaining a deteriorating turf out-weigh the expense of replanting? Today, with renovation chemicals available such as Roundup, methyl bromide, or plant growth regulators, it is easier than ever to make the decision to renovate. Moreover, renovation is much simpler than tillage. Regrading, rock picking, and even transit leveling are often required following tillage. This adds to the expense and bother in renewing a lawn, and were major objections to renovation in the past.

Renovation today is surprisingly simple. Numerous trade magazine articles describe the chemicals and methods of successful renovation. Renovation of an average home lawn can be done often in less than a day. The homeowner can be mowing the new lawn

in a matter of weeks.

Throughout the humid Northwest, a major reason for turf renovation is Poa Annua (annual bluegrass). Geographical areas with high rainfall coupled with mild winters and summers are usually plagued with Poa. Poa becomes established because the growth conditions in the lawn make Poa more competitive than the desired lawngrass species. Put more directly, Poa can literally grow faster than other lawngrasses under our conditions.

Throughout my research career, I've had the opportunity to study Poa from three different geographical locations: Pennsylvania (cool, humid), Oklahoma (warm, dry), and Idaho (cool, dry). Each location has its own unique problems and solutions with Poa. To date, no one has solved the Poa problem. But by understanding how Poa competes with other grasses, the informed turf manager can make decisions that will help minimize Poa problems

in his turf.

Plants compete for three basic requisites of life: sunlight, soil nutrients, and water. A plant that can get one of the three requisites faster or better than the other will survive. Obviously this is a simplistic view of plant interaction (since other factors such as mowing, compaction, wear, etc. come into play), but the bottom line for plants is which one gets to the "food" first. Our management regimes effect the

relative health and vigor of our lawngrasses and may make a competing weed more suited to seeking "food."

A few years ago I developed a specialized research technique by which seedling research could be readily accomplished. The mechanics of this technique are not important for purposes of this discussion. However, the implications of the technique were that turf seedlings could be essentially stuck in place on a seedling with no lateral movement. This opened the door for critical studies on how one plant responds over time to competition from its neighbors.

Using this technique, we studied seedling plant interaction on an acute scale. We examined plant

competition from three standpoints:

1. Sod Seeding - planting seed into a stand of existing turf. Holes were punched in mature sod: the holes were filled with sterile soil and planted to a test species; the sod represented the competing species. A wire ring delineated the microplot from the surrounding sod. Germination and growth were monitored over time, usually for 3 to 6 months.

- 2. Simultaneous seeding competing species sown on a sterile seedbed adjacent to one another. Usually we planted the test species in 1 inch circles within areas seeded to a competitor. Seeding rates of the test species and competitor could be varied in different plots to determine the effect of population density on competition. Wire circles were again used for demarcation of plots.
- 3. Spaced planting different species sown spaced apart to determine their growth potential. We usually planted 20 seeds into 1 inch circles spaced 6 inches apart on a sterile seedbed. The ultimate growth potential was estimated by the tillering rate over time. Grasses that tillered fast were regarded as potentially good competitiors. These tests usually remained in study for 6 weeks.

Most of our overseeding tests have been confined to Kentucky bluegrass, perrenial ryegrass, and annual bluegrass, although we've done a little work with a few other species. Without question, perennial rye-

CONTINUED PAGE 22

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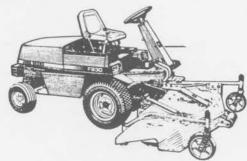


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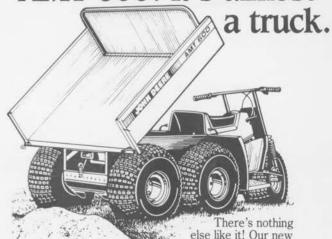
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OVERSEED?, CONT.

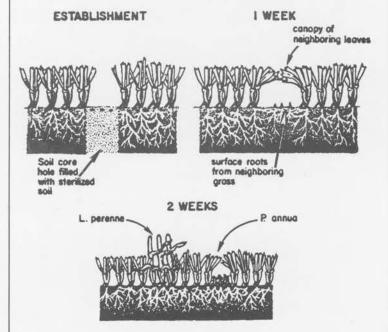
grass was easiest to overseed. Perennial ryegrass seedlings have a high vertical growth rate. On several occasions we saw leaves of perennial ryegrass protruding above the sod. This vertical growth habit allowed ryegrass to obtain light when other grasses withered and died in the dense shade of neighboring

Here are some other important findings from this

series of overseeding studies:

1. Perennial ryegrass was followed in competitive ability by annual bluegrass. Kentucky bluegrass was a distant third in the competition.

CONTINUED NEXT COLUMN



Seed	Seedlings	Tillers
Ryegrass	12	3
Poa annua	7	2
Ky. Blue	4	1

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- 2. The species of the sod into which seeds were planted was generally unimportant. Ryegrass could be seeded into Poa sod as readily as into Kentucky bluegrass sod. Although there was a slight tendency for ryegrass sod to be the toughest competitor against ryegrass seedling (i.e., likes repel).
- 3. Anything you can do to disturb the existing sod will benefit the overseeded seedlings. Of course Roundup treatment of the sod prior to overseeding is ideal. But if this is not possible, try scalping or heavily verticutting (dethatching) just prior to overseeding. This will weaken the sod and give the seedlings their best chance. Trade journal articles have even described the use of plant growth regulators to suppress the sod in advance of overseeding.
- 4. Season of planting is important. Poa grows best during early spring and early fall. Overseeding at other times of the year will stretch the grass-to-Poa ratio in favor of the grass. Mid summer establishment favored ryegrass over Poa by a large amount, because Poa likes lower temperatures and because Poa "had its mind on other things" during that time it wanted to go to flower. Poa germinating during June and July has the impulse to go to flower rather than growing vegetatively. That weakens it as a competitor.
- 5. Choosing the best variety and seedlot is important. A weak or unplanted variety will not be a good competitor in the seedbed or a good turf in the long run. Likewise, a seedlot with low germination rate is weak and will not be a good competitor.

With Kentucky bluegrass, varietal selection is very important in overseeding. Varieties that perform the best nationally don't always perform the best in our unique Northwest climate. Top Oregon varieties are Eclipse, Majestic, Columbia, Challenger and Summit (Nallo). Top Washington varieties are Classic, Midnight, Haga, Mona and Summit. Top Idaho varieties are Ram I, Bristol, Midnight, Challlenger and Summit (data source: 1980-85 National Test Trials). Ryegrass variety is slight less important than bluegrass variety in overseeding, but it is important for a nice, attractive appearance to the mature turf. All*Star, Palmer, and Gator are excellent ryegrasses for the Northwest.

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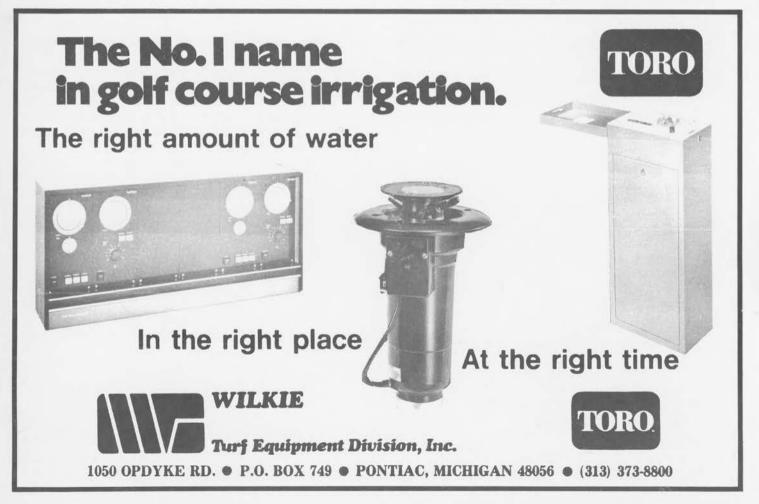
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GREEN, CONT.

lawnmower, having its start as early as 1830, was slowly adopted for horsedrawn use and special leather shoes were placed on the horses so the golfing surface would not be disturbed.

Now two explosions lie just ahead for golf in Amercia. The first occurred in 1913 when an unknown American caddy by the name of Francis Ouimet beat the world's greatest golfers of the day, Englishmen Vardon and Ray for the U.S. Open Championship at The Country Club, Brookline, Massachusetts. The popularity of the game soared. About the same time, agricultural science had budded and was about to bloom. The USGA, organized in 1894, supported publication of a new book in 1917, "Turf for Golf Courses" written by Drs. Piper and Oakley of the Department of Agriculture. These men were not only scientists but golfers as well. Others throughout the country who loved the game could see the need for better, more dependable playing surfaces. Agricultural science would now serve golf.

The Green Section of the USGA was formed in November, 1920 and gained immediate support from green chairmen and greenkeepers (now they prefer to be called golf course superintendents) throughout the country. It's difficult for us today to even imagine or understand the complaints of the golfer just 40 years ago! For example, earthworms were a major problem especially on greens. Either their casts or their bodies were always in the line of a putt. One early Green Section agronomist recalls the golfers would complain bitterly that their ball would invariably be

impediments. In all his years however, he never once heard a golfer complain that his ball was deflected into the hole by the earthworm. Surely, the scientist thought, statistically this must have happened at least now and then!

deflected away from the hole while putting over these

Disease was the big grass killer of those days and Dr. John Monteith, then Director of the Green Section, in the late 1920's developed the first effective fungicides for their control. His findings are still in use today. The march of science made possible new machinery, new grasses, chemical fertilizers, weed controls,

insecticides, improved soil mixes, irrigation and drainage principles, etc. All followed in blazing succession from the early 1930's to the present day.

Dr. Fanny Fern Davis received the 1975 USGA Green Section Award for her tremendous contribution to golf through work with turfgrasses. During World War II, Dr. Davis left her job with the National Capital Parks Service and served as Acting Director of the USGA Green Section. During this time, she was instrumental in recognizing and adapting newly developed chemical plant hormones for the control of broadleaf weeds in turf. If you have ever played golf in a sea of dandelion seedheads, you will recognize immediately the importance of her work with 2,4,D. She ushered in a new era for the game. Dr. Davis' contribution in weed control has had far-reaching effects and she is the first woman to receive the Green Section Award.

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