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On Course With the President

by Joel Purpur, President, MAGCS

Hosting the June MAGCS golf event and meeting at the River Forest Country Club was a real pleasure for me. I hope all who participated enjoyed themselves and the golf course. Two straight weeks of 90 degree temperatures with no rain in early June was a challenge for all of us; it was just the weather I was hoping for to prepare the course for our outing. NOT! Thanks again to all who helped with the event, especially our generous sponsors! It did not take long to drain the 500 cans of pop and beer provided on the course! Sorry we ran out, it was a hot and dry one!

The weather has cooperated pretty well this year for golf events (except for the combined golf day) which makes things a whole lot easier. This brings us to an issue that the Board must address. What happens in the event of a rain day when the contract with the host club demands numbers for financial guarantees for all food reservations? These guarantees for food and arrangements have become a standard requirement at virtually every MAGCS meeting site.

Since the courses we play are usually generous enough to comp our green fees and sometimes carts as well, does the MAGCS give rain check credit if it means taking a substantial financial loss for the association? Almost the entire registration fee covers only the basic costs of the meals. Little else. Those of us who were rained out at the ITF Combined Golf Day at Eagle Ridge did not get any type of refund for much the same reasons. Clubs these days are getting real firm with their guaranteed numbers. Watch for the MAGCS meeting rain policies in upcoming mailings. It is a business hosting and providing meals at our meetings and these issues must be addressed in a business type manner.

Things are working out, at least on a temporary basis, transitioning the responsibilities of the MAGCS Executive Secretary. George Minnis, a real computer buff, is taking over the responsibilities of the position. He has previously helped out Joan from time to time, so he is somewhat familiar with the operation and looks forward to the challenge. He has many ideas for improving the data base program and the capabilities of our present computer system. We will have to change the MAGCS phone number and post office box, so look for an update soon. Welcome abroad, George!

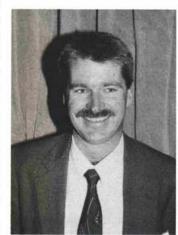
Just a couple of reminders. Please, if you have not returned your MAGCS Superintendent Survey, please do so ASAP! We need your membership feed back. Also, the pre-registration for meetings has helped a great deal in preparation for our meetings, with some exceptions. Prepayment has not always accompanied pre-registration, or people phone in a reservation and don't pay or show up. Either way, if people make reservations, don't pay, and don't show, the MAGCS and its members have to cover the costs. Let's try and improve in this area. The Editorial Committee is receiving some exciting and creative suggestions from the membership for a new newsletter name. We will report back as things develop and in the mean time, Thank You for your participation. Stay green and keep cool in the "home stretch" of summer

3 summer.

GCSAA Affiliate Chapter Dues Survey Summary

by Luke Strojny, CGCS

These days, you always seem to be filling out some sort of survey or comment card. I know, they are a pain to fill out, but there is some useful information to be found. This is the reason the MAGCS Board of Directors instructed me to conduct a survey of GCSAA affiliate chapters' dues structures. We wanted to compare the MAGCS dues other chapters throughout the country.



Surveys were sent to 22 chapters. Locations of chapters included the mid-

western states surrounding Illinois, California, Florida, New York, and Texas. The following are the questions:

- 1. Dues for a superintendent with 3 or more years of experience?
- 2. Dues for a superintendent with less than 3 years experience?
 - 3. Dues for assistant superintendents?
 - 4. Dues for commercial members?
 - 5. Do you offer corporation memberships?
 - 6. Do you offer student memberships?
- 7. Do you employ a full-time executive director or secretary?

Here are some highlights from the survey. Out of 15 responses, 9 have higher dues for their Class A, B, and C members than the MAGCS; 8 commercial members dues are higher than the MAGCS; 3 chapters offered a corporate membership; 8 chapters offered student memberships; and 8 chapters employ a full-time executive director or secretary. The higher dues for A, B, and C members range from \$10 to \$50 over the MAGCS current dues. Commercial membership were \$15 to \$95 over our current dues.

We on the Board of Directors and the membership have to take a hard look at what it costs to operate the third largest GCSAA affiliate chapter in the country. The vast amount of work it takes to run our association is sometimes overwhelming, which I am finding out. Our current dues just cover the cost of the **Bull Sheet**, and that's it. There is a need to have a full-time secretary to handle administrative duties and answer phone calls. The MAGCS has grown to the point that this is not a part-time position.

I'm sure we all agree our association dues are a good value. But as our association continues to grow, we need to ask ourselves, are we looking for a bargain or the best association we can be?



Lee Bruce

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Update on Management of Summer Decline of Bentgrass

by Leon T. Lucas, N.C. State University Raleigh, NC

Turf quality on bentgrass golf greens often declines in hot weather during the summer especially in areas with high relative humidity. Many factors such as diseases, environmental stresses, soil properties and heavy traffic have been associated with this problem. High air and soil temperatures appear to be major factors in the southeastern United States. Soil temperatures above 90 degrees F two inches deep in the soil are often recorded in the afternoon on bentgrass golf greens on clear and sunny days when the air temperature is above 90 degrees. The high temperatures cause the roots of cool season grasses to decline and the growth of new roots is inhibited. Published data indicates that bentgrass roots do not grow when the soil temperature is above 77 degress F. The declining roots are more susceptible to root rotting fungi and other stresses and new roots do not grow in hot weather to replace the old roots.

The roots on individual bentgrass plants that are separated from a turf with decline are few in number and short. A typical bentgrass plant in the summer in North Carolina will have one or two small live roots from 1/4 inch to 1 inch long attached to a short live stolon. Most of the older and longer roots are dead and are attached to rotted and dead portions of stolons. Rotting of stolons may be as important as the root decline in the summer decline syndrome since the new roots develop on the youngest part of the stolons and as the stolons die the roots die. The "small plants" are very susceptible to any type of disease or environmental stress and as some plants die the turf becomes thin and the turf quality declines.

Other factors that have been observed to contribute to the decline are lack of oxygen in wet soils or in thatch lavers. restricted air movement that prevents cooling and drying, localized dry spots, high soluble salts, wilt and diseases.

Other factors that have been observed to contribute to the decline are lack of oxygen in wet soils or in thatch layers, restricted air movement that prevents cooling and drying, localized dry spots, high soluble salts, wilt and diseases. Wet and poorly drained soils have low levels of oxygen which cause roots to drown and provide favorable conditions for disease causing fungi. Too much water around the plants can occur on high-sand-content greens where thatch layers develop on the surface and cause perched water tables around the stolons and roots. Roots can die quickly when soil temperatures are in the 90's and adequate oxygen is not present. Decline usually appears first on greens in low areas surrounded by trees or mounds. Canopy temperatures and humidity are usually higher on these greens than on nearby healthy greens in open spaces with good air movement. Wind blowing on the grass removes boundary layers and provides conditions for maximum evapotranspiration to keep the grass cooler and drier. Decline in patches that has been diagnosed as take



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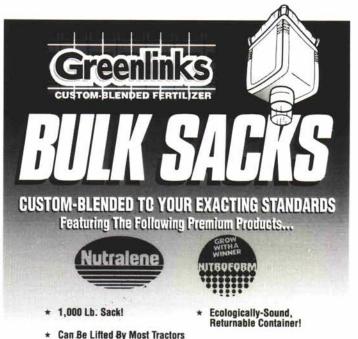
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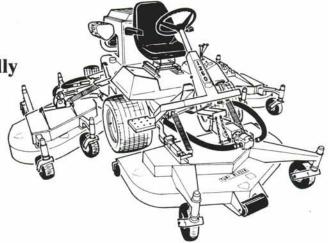
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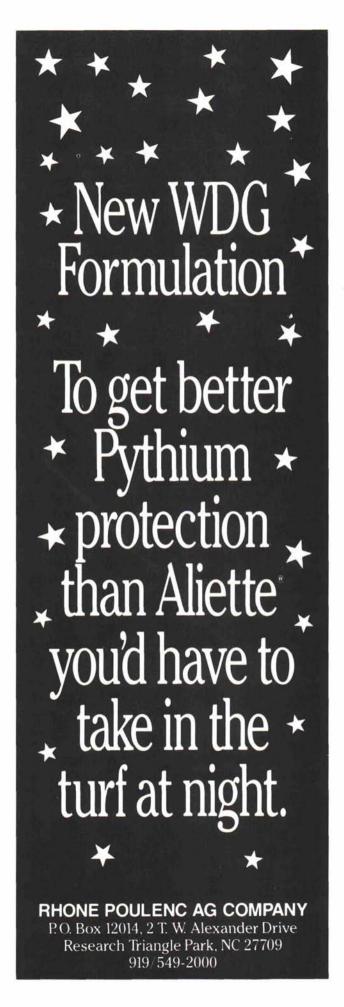
(Decline of Bentgrass continued)

all patch in some cases has been associated with localized dry spots in many cases in North Carolina. Canopy temperatures of 110 to 115 degrees F have been recorded on bentgrass in localized dry spots when the air temperatures were 90 to 95 degrees F. These temperatures can kill bentgrass plants or cause severe damage that appears as a decline in the spots for several weeks later. High soluble salts in the top ½ inch of soil and thatch have been detected on some greens that are developing summer decline. The high soluble salts may be from fertilizers, especially ones with high amounts of potassium, or from irrigation water with high salt content. The high salts usually occur during dry weather when adequate irrigation water has not been applied to replace water removed by the plants and by evapotranspiration. Excessive levels of salt can damage the roots and stolons and make these tissues more susceptible to fungi discussed below.

Roots and stolon rot diseases have been identified as major factors in the summer decline of bentgrass. Many different fungi have been isolated from roots with the summer decline syndrome. Pythium species have been isolated most frequently in samples processed in our laboratory. A total of 33 different species of Pythium have been isolated and identified by Dr. Gloria Abad from roots and stolons of bentgrass with decline from golf greens. Typical brown patch is often observed on these greens early in the summer and some of the declining patches in late summer appear to be similar in size and in the same places as brown patch was earlier. Three different species of Rhizoctonia that causes brown patch have been isolated from bentgrass golf greens. The Rhizoctonia species may be causing much of the stolon rot that is observed on declining bentgrass. The most effective fungicide treatments discussed later have activity against both Pythium and Rhizoctonia species and would indicate the involvement of both of these fungi in the disease. Wilt which occurs during high temperatures on the bentgrass plants with poor root and stolon systems is probably the final factor that kills most of the plants.

A total of 33 different species of Pythium have been isolated and identified by Dr. Gloria Abad from roots and stolons of bentgrass with decline from golf greens.

Management practices that encourage new root growth during stress conditions appear to help manage the summer decline problem. Aerification in the spring and early summer to allow better drainage through thatch layers and more oxygen in the soil is probably the best practice to use to help prevent the problem. Removal of trees or undergrowth from around greens to improve air movement has helped in some cases. Fans installed around greens have been very useful to help improve growing conditions in areas without good air movement. Fans should be directed downward to move air across the surface of the green and toward open areas for best efficiency. Irrigation programs should be modified throughout the summer to apply small amounts of water frequently when root systems are short to prevent drought stress. Wilt symptoms should not be allowed to develop during the (continued page 10)



(Decline of Bentgrass continued)

summer because the bentgrass cannot recover from wilt when the plants are weak. The application of small amounts of fertilizer (1/10 lb. of N/1000 sq. ft.) with a sprayer every 10 to 14 days during the summer has helped to avoid soluble salts problems and to insure adequate nutrients near the soil surface where the new short roots are growing. Fertilizers applied earlier in the year may be deeper in the soil and not available to the new short live roots. Some new bentgrass growth must continue during the hot weather to provide good turf quality.

Some fungicide applications have given good results on the summer decline syndrome in test plots at North Carolina State University. The combination of Aliette plus Fore or Aliette plus Daconil 2787 applied every 14 days beginning in early summer, about June 15, have been the best treatments for improved turf quality in test plots at Raleigh. These fungicide combinations have been shown to be active against both Rhizoctonia and Pythium species that have been associated with the summer decline of bentgrass in North Carolina. Results with low levels of Aliette plus Fore have indicated a synergistic interaction between these fungicides for the control of brown patch. Tests on bentgrass in 1994 indicated that the Fore formulation gave better brown patch control and better turf quality than other types of mancozeb fungicide formulations.

More research is planned to identify more factors and diseases that may be involved in the development of the summer decline syndrome and to develop better management methods. Knowing that the roots and stolons of bent-grass decline during the summer will help golf course superintendents adjust management practices to avoid serious damage to golf greens. Management practices that encourage new root growth and proper fungicide applications at the correct time are the most effective ways that we now know to help manage this serious problem on bentgrass in hot and humid climates.

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