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Contact for GDGCSA Information

Kate Mason
Executive Secretary

GDGCSA
P.O. Box 173, Troy, MI 48099
(248) 362-1108
Fax: (248) 362-1736
E-Mail: gdgcsa@aol.com

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on par ^{with}_{the} president



I am humbled and honored to be elected President of our association for the next two years. The list of past presidents in the roster all gave their commitment to do their best and are responsible in making this association the leading chapter in America . Commitment and responsibility are strong words that affect our lives in many ways , and our new board members, Ron Abbott CGCS and Tom Schall CGCS have accepted the challenge of representing our membership.

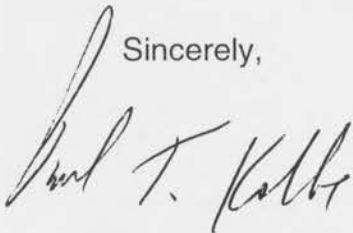
To you, the members, the commitment of keeping our association strong is through your participation. Participation is giving the board feedback on events, volunteering to work on a committee, writing articles, and attending meetings. During the 1998 season try to commit yourself one day a month to the association. The topics selected by the education committee will be informative and worthwhile. We all benefit from greater attendance because more ideas are exchanged.

At the GCSAA Convention in Anaheim, Jon Maddern CCCS, Elk Ridge Golf Club was elected to the board of directors. Jon will be a great voice for the all Michigan superintendents. Also, Mike Meindertsma, Grand Traverse Resort won the Enviromental Stewardship Award in the resort category. Congratulations to both!

Have you ever recalled a better summer (1997) and winter? Haven't plowed on the weekends yet... yeah! Hope El Nino is kind to us this summer.

Good luck for the new season and see you at the membership meetings.

Sincerely,



Paul T. Kolbe

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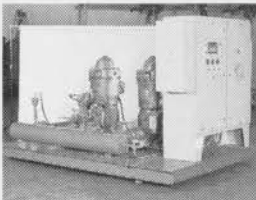
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What Can We Expect This Summer?

by Dr. Paul Rieke

The fall and winter of 1997-98 will be the topic of discussion for many years. What about the spring? I am on record last year for predicting an early spring this year. That was not based on any insight I might have had that El Nino would be so active this year, but merely that we had experienced three successive late, cold springs. It was a matter of probability that eventually a nice, long spring would occur, or at least an early spring. Of course, we could also have a short spring and an early summer. Predictions for the summer have ranged from a cold, wet year to a record hot summer. Stay tuned! Winter may not yet be over.

After some early snow last fall, temperatures have stayed warm throughout the winter. Record high temperatures over the winter and limited snowfall occurred. How will this impact the turf? Good question.

Fall weather conditions resulted in late growth and play on golf courses. The late growth should not result in a problem. Photosynthesis should have continued even into December in spite of regular cloudiness. This is the good news. If there is bad news it is that leaves stayed on the trees much later than normal. Where there was significant shade from deciduous trees, we did not have as much late fall photosynthesis as we normally expect. Trees shed their leaves late. Most golf courses were able to manage this late leaf drop, but if they were not removed, the grass will be weak this spring. These leaves should be removed as early as possible.

The warm weather in January raised questions about the possibility of desiccation. There was concern about the grass becoming physiologically active and therefore, susceptible to desiccation. Fortunately, the cold dry weather did not occur. In addition, there was ample rainfall and soil moisture.

Another question is could we still experience crown hydration damage? While predictions are for warm weather to continue, it only takes one hard freeze to kill turf, particularly for annual bluegrass. Many years ago there was significant crown hydration injury that occurred on the night of April, 10, The temperature dropped to about 10° F. following warm, rainy weather. In areas where water stood the plant took up water and become physiologically active. The sharp drop in temperature killed the root portion of the crown, so the plant eventually died. This process was studied by Dr. Beard many years ago while he was here at Michigan State. Crown hydration damage is still possible, although most weather predictions suggest warmer than normal weather should continue through April.

Soil temperatures on March 1 at the 1 inch depth at the Hancock Center were at 50° F at the 1 inch depth on greens and about 45° F at 1 inch under grass mowed at 3 inches, very high for the first day of March. However, a week later on March 8 they were about 5 degrees lower. By contrast, measured temperatures at Traverse City were about 35° F at the 4 inch depth. While it will be colder at a deeper depth this time of year, we do expect the soil to be colder in more northern regions. Check your soil temperatures as a gauge of how fast growth will occur.

Along with the warm weather and greening of the grass comes the excitement experienced by golf course superintendents that the year is ready to begin. Several have mowed greens already. Late fall/early winter growth probably provided some clipping removal. Annual bluegrass will normally start growth earlier than bentgrass.

We have had questions about should we be fertilizing grass to encourage early growth? Personally, I would not recommend it if the grass is in good condition. An exception could be where the grass is thin or if snow mold has been active. We could still have a lot of snow mold activity this year, particularly pink snow mold. In my opinion, it is best to let the turf recover naturally and not push it too hard at this time. Heavy nitrogen applications on reasonably healthy turf in the spring causes greater growth. Instead of accumulating carbohydrates, the plant grows rapidly. When mowed, the carbohydrates in the leaf tissue are mowed off. We would prefer to have the plant accumulate those carbohydrates that may be helpful for stress tolerance later, particularly if we should have an early, hot, stressful summer.

What about early play this year? Several courses have had as many as 200 golfers on a couple of days in late February. Will this be harmful to the turf? Another good question. There is not one answer to that. If the greens are firm and no footprinting occurred, there may have been little damage. Early heavy traffic when the grass is not growing could be detrimental. While early play can be great for golfers, there is the question about the long-term injury, depending on the site. Decisions on early play must be based on a site by site basis.

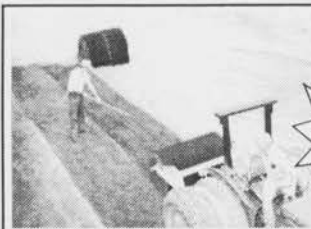
Overall, grass on golf courses is in excellent condition. While weather conditions over the next four weeks or so remain to be experienced, there should not be any major negative effect on the grass. Proceed with normal spring maintenance. Hopefully, we will have another enjoyable summer.

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MICHIGAN SUPERINTENDENTS GOLF CHAMPIONSHIP

On August 4, 1998 the Michigan Superintendents Golf Championship will be held at Forest Akers West in East Lansing. Tee times will begin at 10 a.m. Only Class A & B members are eligible to participate. Entry forms will be mailed in the near future. Contact Cary Mitchelson (248)-650-4536 for more information on this event.

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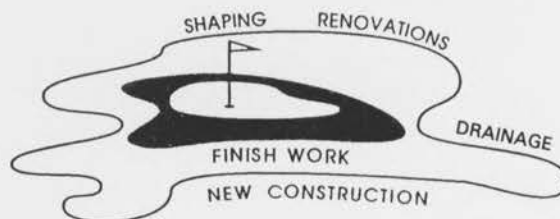
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PRESIDENT

GAM/GDGCSA Seminar

By Paul Kolbe

The annual GAM/GDGCSA seminar at Detroit Golf Club was very successful. The 3-4" of snow did not deter people from attending this educational event. Our membership was represented on the speaker agenda and all did an outstanding job. The topics included irrigation upgrade by Carol Colein, Benefits of USGA Turfgrass Advisory visit by Tom Gray, CGCS, Goose Control Strategies by Tim Dorner, CGCS, Fritz McMullen, and John Nowakowski, CGCS. Jeff West, CGCS spoke on the Alien Work Force and discussed hiring guidelines. Art Hills talked about his newest jewel, the Bay Harbor Golf Club in Petoskey, Michigan.

Carol Colein, on irrigation upgrade, said you should assess your system to find problems, create a wish list, create a master plan and phase in new additions with the future always in mind. Goose control strategies included use of dogs, using sprayable irritants, cracker shells, and through a DNR permit - egg switching. John Nowakowski adopted a trained border collie through a humane society in Ohio, which proved to be inexpensive - \$250.00. Geese are pairing up in March and are finding their nesting spots.

Jeff West, CGCS, from the Wyndgate believes that 80% of the migrant workers seeking employment at golf courses are illegal aliens. They like to be hired in groups so they are more comfortable in their surroundings. You need a bilingual foreman and you should take a Spanish class and try to teach them the English language. New program in 1998 - GTO International which is to supply qualified, trained individuals and the teaching of English for the working environment. Be prepared - make sure they are legal.

John Nowakowski, CGCS, Great Oaks CC showed slides of his maintenance expansion and the improved working conditions for his crew. On expansion, build for future additions - wash pads, recycling center, etc. Greg Lyman introduced the Michigan Turfgrass Environmental Program, which is to make golf courses environmentally friendly and to be recognized for their efforts. A future seminar is slated to expand on this program and answer more questions.

The GAM has launched a new magazine, *Michigan Links*, which all GAM members will receive free. If you have an official GAM handicap, you are automatically a member. Good luck in this new adventure!

Finally, Ward Swanson, retired Plum Hollow Golf Club superintendent, was recipient of the G.D.G.C.S.A Distinguished Service Award for his outstanding contribution to our association. His close friend, Clem Wolfrom, gave an excellent speech highlighting numerous accomplishments. Ward gave thanks for the Ford's Edsel failure, which turned his career towards golf maintenance, the owners of Idyl Wyle Golf Club in Livonia and to the Plum Hollow Golf Club members. Ward is enjoying retirement in Standish, Michigan, where hunting and fishing is plentiful - his favorite hobbies.

JOHN WALTER AWARD ANNOUNCEMENT

A great way to contribute to the association is by writing an article for *A Patch of Green*. Each one of us can benefit from an article that shares an experience, opinion or area of expertise. Articles that are published in *POG* are eligible for the John Walter Award (plaque and \$100). In addition, the Board has decided to continue giving a \$50 credit towards meeting expenses or dues for each article published (maximum \$100 credit) in a *POG*. The criteria is an article of 500 words or more on any topic that would be beneficial to the membership. This is a good opportunity not only to save some money for yourself or your club, but to give back to your association. Contact Awards Chairman Rick Murphy, CGCS for more information.

Right - GDGCS President Paul Kolbe presents plaque to 4-year scholarship winner Andrew Keilen at the MTF Conference

Bottom Left - The GDGCSA donates a check for \$21,500 to the MTF for continued research

Bottom Right - Dennis Cook, Jr., the 2-year scholarship winner, receives plaque at the MTF banquet from GDGCSA President Paul Kolbe



Michigan Turfgrass Conference

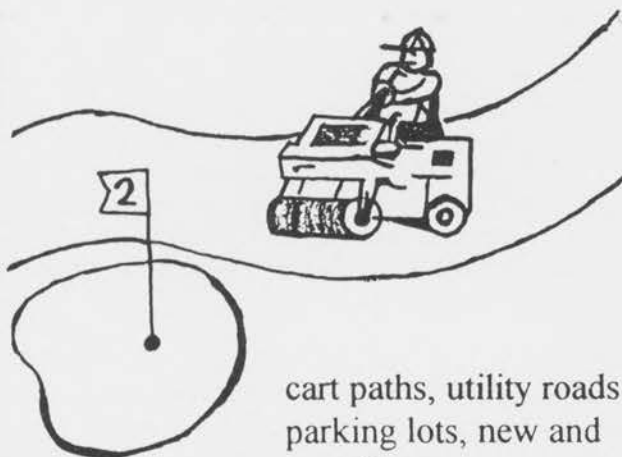
The 1998 Michigan Turfgrass Conference was a great success, with over 1,375 people in attendance. In addition to the general sessions, 18 schools were offered with over 1,000 attendees participating in these extra educational seminars. At the annual meeting, Gary Bartsch, from Huron Clinton Metro Authority, was elected president for a 2-year term. The highlight of the conference was the annual Awards Dinner, where a check was presented to the university for \$139,000.00. The board of the Michigan Turfgrass Foundation and the professors at Michigan State University would like to express their most sincere "Thank You" for all of the donations received throughout the year to help fund turfgrass research.

The 1999 Conference will be a retirement party for Dr. Rieke; he retires July 1, 1999. We plan to bring in all former MSU people who are now faculty at different universities around the country, as well as some of Dr. Rieke's close friends. So far, we have 23 professors and friends committed.

The 1999 Michigan Turfgrass Conference should be the best educational conference ever. The dates of the conference are January 18-21, 1999.

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Jerry Faubel Receives Meritorious Service Award

At January's 68th Annual Michigan Turfgrass Foundation Conference, held in conjunction with Michigan State University Extension Services, Saginaw Country Club's Manager of Grounds, Jerry Faubel was awarded their Meritorious Service Award during the Annual Awards Dinner. One of only a few Golf Course Superintendents to receive the highest award by the Michigan Turfgrass Foundation, Jerry was completely stunned at the announcement of this award.

The Michigan Turfgrass Foundation is composed of all facets of the turfgrass industry. Ranging from golf courses, home lawns, parks, sod and cemeteries, to athletic fields the foundation is led by an executive board, of which Jerry was President during 1983 and 1984. One of the main purposes of the Foundation is to raise funds for turfgrass research at Michigan State University. During his tenure on the executive board, Jerry was instrumental in leading many in-roads into the university for the purpose of securing Michigan State University Administrative support for continued and far-reaching turfgrass research. He also pioneered the need for an industry supported university staff member to be on board as an environmental watchdog to aid and guide responsible turf managers on what was right for Michigan's environmental resources.

Known throughout Michigan, in his early years, as a golf course superintendent, for his use of infrared photography as an aid to determine golf course needs for improved water drainage and his work on determining the correct type of sand used for top dressing putting greens, Jerry quickly gained a reputation as a competent manager of fine turfgrass. All of the while serving on numerous committees for the Michigan Turfgrass Foundation, Jerry saw the need for a regional turfgrass association. The result of this became known as the Mid-Michigan Turf Association, of which Jerry served as the association's first president in 1980. Continuing today, this regional association contributes money annually to the Michigan Turfgrass Foundation.

Stunned and overwhelmed with the emotion of receiving Michigan's highest award as a turf manager, Jerry was almost at a loss for words during his acceptance speech, if you can believe that. The award is not given out annually and the announcement is not made until the evening of the event. The Michigan Turfgrass Foundation's Board of Directors quickly and unanimously decided Jerry Faubel was most deserving of this award.

Further adding to Jerry's complete surprise, on hand to see him receive this award were his wife, Sally, Martin Stark, S.C.C.'s G.A.M. Representative, Dan Zeitier, S.C.C.'s Assistant Golf Professional, Jeff Pack, Jerry's long-time assistant, close friends and other family members.

A flushed and surprised Jerry was quoted that night as saying "I had no idea. I am extremely honored as recipient of the Meritorious Service Award." Later Jerry confided with family and friends, telling them at first he was surprised to hear his name announced from the podium. Then he thought he had better pay attention as to what was being said about him, only then to realize he was going to have to go up on the dias to receive the award and make an acceptance speech. "When I realized this, I really began to sweat bullets."

Congratulations, Jerry Faubel. A well deserved bit of recognition for all of the countless unpaid hours you devote toward safeguarding your industry, ensuring the integrity of finely managed turfgrass and the positive impact turf plays on the environment within our state.



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Michigan Room: A Success in Anaheim

by Mike Jones

The Michigan Room was the place to be and meet others during the Golf Course Superintendents Association of America National Convention in Anaheim, California. The room this year was much larger and accommodated more people with comfort. All three days, February 4-6, were well attended. We estimate well over 1,000 people took part in the hospitality that Michigan had to offer.

A sincere "thank you" goes out to those vendors who contributed to the success of this year's event. Your support made the room what it was. We also want to thank those members who donated not only their funds, but their time and effort as well.

On Thursday, February 5, we recognized superintendents from each association for their individual service to each chapter. This night was well attended and the supers deserve recognition:

Northern Michigan Turf Managers
C.E. "Tuck" Tate, CGCS

Western Michigan Golf Course Superintendents Association
Keith Paterson, CGCS

Mid-Michigan Turf
Steve Rose

Greater Detroit Golf Course Superintendents Association
Jay Delcamp

Jon Maddern was also recognized for his run for a GCSAA Board of Director's position, a position he won later that week.

The support shown for the room was great. If anyone has any questions or input, please contact me at 313-881-8112. The evaluation of the Michigan Room is underway for next year, so please let me know what you think of the direction of the room.



Michigan Hospitality Room



Above - 1998 Service Award winner for Western Michigan GCSA was presented to Keith Paterson, CGCS



Above - 1998 Superintendent Service Award winner for Northern Michigan Turf Managers Association was Tuck Tate, CGCS



Left - 1998 Superintendent Service Award winner for GDGCSA was Jay Delcamp



During The Anaheim Convention

Above - 1998 Superintendent Service Award winner for Mid-Michigan Turf Association presented to Steve Rose

Right - Mark Jackson, like many others, found the Hospitality Room a great place to meet



Left - Michigan Hospitality Room Chairmen John Fulling and Mike Jones

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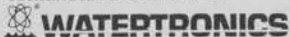
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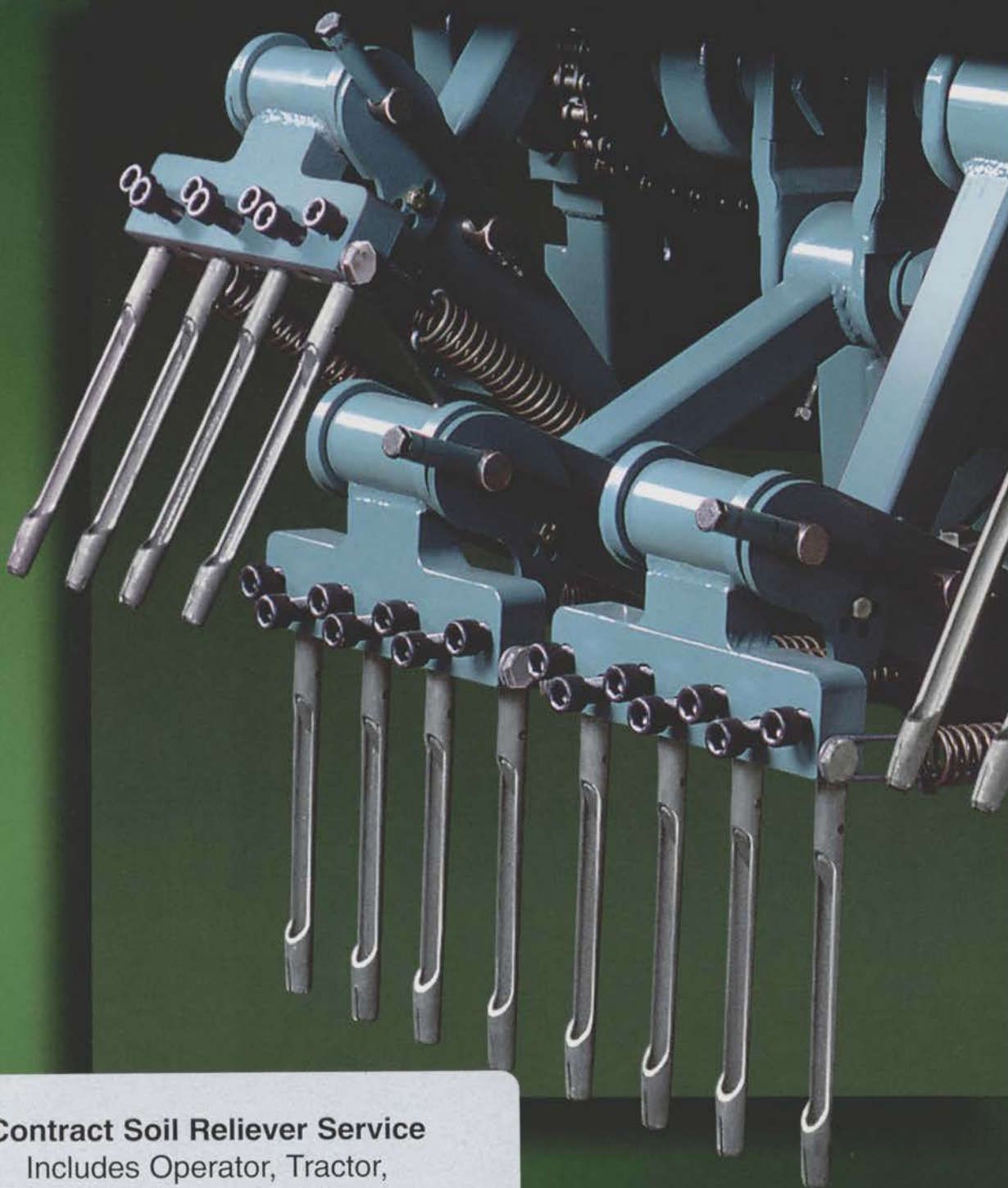
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 1/2" x 10", 12", 14"
 5/16" x 8"

Adapter Heads hold 8 of 5/16" solid tines
 Slicer Heads hold 4 of 6" blades

Coring: 1 1/4" x 8", 12"
 1" x 10"

3/4" x 7", 10" (standard w/ 3/4" shank; also available with 1/2" shank)
 5/8" x 7"

We think it's fair to assume that the average athlete doesn't give a great deal of thought to the maintenance of a playing field. They're there to play "a game", but you're not! As a turf professional, it's your job to insure that the grounds are kept at their finest year-round. The Soil Reliever from Southern Green can help you accomplish just that.

As the Soil Reliever is pulled across the turf, the deep-spading action fractures the soil into small even particles, instantly relieving the pressure-packed soil. The Soil Reliever's chain-driven tines are driven as deep as 16 inches. The crankshaft design delivers maximum leverage by placing added weight directly over the tine heads. Its soil-fracturing action creates channels into the grass root structures allowing oxygen, the key ingredient essential in deep root development, water and nutrients to penetrate more quickly throughout the soil profile. You use less water, fertilizers and chemicals. Healthy soil means increased resistance to traffic, weather, parasites and disease. You use less fungicides and pesticides. You save **Money**. That's why you, your budget and the soil can **breathe a whole lot easier** with the strong, durable Soil Reliever.

SOIL RELIEVER 72

Our heavy duty deep tine machine designed for 35 - 45 H.P. tractors with added speed. Fastest of all deep tine aerifiers. Wide enough to cover most turf tire tracks. This high capacity machine can aerate athletic fields, fairways, and sod farms yet gentle enough to aerate greens.



The chain driven split crank shafts permits the tine arms to follow in a straight line, with less torque, reducing stress and vibration, allowing the Soil Reliever to operate at a faster speed.



Specifications:

Machine Weight - 2000 lbs (910 kgs)
Working Width - 72" (1.83 M)
Maximum Working Depth - 16" (33.6 cm)
Length - 45" (1.14 M)
Width - 75" (1.90 M)
Height - 42" (1.06 M)
Lateral tine spacing - 3" (76mm), 4" (102mm), 6" (152mm)
Hole Spacing - varies with forward speed
Power Requirement - 35 hp minimum
Square Foot per hour - 18,000
Operating Speed - up to 1.2 MPH (1.9 km/hr)
Tractor Attachment - Category 1, 3 point lift

Tines Available:

Solid: 7/8" x 12"
3/4" x 10", 12", 14", 16"
1/2" x 10", 12", 14"
5/16" x 8"
Adapter Heads hold 10 of 5/16" solid tines
Slicer Heads hold 4 of 6" blades
Coring: 1 1/4" x 8", 12"
1" x 10"
3/4" x 7", 10" (standard w/ 3/4" shank; also available with 1/2" shank)
5/8" x 7"

The leverage of the machine allows the weight to be placed directly over the point of impact reducing shock, wear and tear on the machine. Lift of soil is due to the amount of time the tine is left in the ground. The faster the tine is in and out of the ground, the smoother the surface will be. Southern Green's machines are faster than conventional deep tine aerifiers, virtually eliminating soil puckering.



SOIL RELIEVER 80

The original Soil Reliever. Designed for heavy duty jobs. Requires 50 - 60 H.P. tractors.

Specifications:

Machine Weight - 2575 lbs (1170 kgs)
Working Width - 80" (2.03 M)
Maximum Working Depth - 16" (33.6 cm)
Length - 43" (1.09 M)
Width - 88" (2.24 M)
Height - 50" (1.27 M)
Lateral tine spacing - 3-1/3" (85mm) to 5" (127mm)
Hole Spacing - varies with forward speed
Power Requirement - 45 hp minimum
Square Foot per hour - 17,000
Operating Speed 1 MPH (1.66 km/hr.)
Tractor Attachment - 3-Point lift, P.T.O. Driven

Tines Available:

Solid: 7/8" x 12"
3/4" x 10", 12", 14", 16"
1/2" x 10", 12", 14"
5/16" x 8"
Adapter Heads hold 8 of 5/16" solid tines
Slicer Heads hold 4 of 6" blades
Coring: 1 1/4" x 8", 12"
1" x 10"
3/4" x 7", 10" (standard w/ 3/4" shank; also available with 1/2" shank)
5/8" x 7"



SOIL RELIEVER JR.

Designed and constructed as strong as the larger models, but built primarily for smaller tractors (below 18 - 22 hp requires bogey) and smaller budgets, yet heavy enough for deep tine aerification.

Specifications:

Machine Weight - 1250lbs (568 kgs)
Working Width - 48" (1.22M)
Maximum Working Depth - 12" (30.48 cm)
Length - 43" (1.09M)
Width - 55" (1.40M)
Height - 41" (1.04M)
Lateral tine spacing - 3" (76mm), 4" (102mm), 6" (152mm)
Hole Spacing - varies with forward speed
Power Requirement 18 - 30 hp
Square Foot per hour - 12,000 @ 4" intervals
Operating Speed - up to 1.2 MPH (1.9 km/hr)
Tractor Attachment - category 1-3 point lift

Tines Available:

Solid: 3/4" x 10", 12"
1/2" x 10", 12"
Adapter Heads hold 10 of 5/16" solid tines
Slicer Heads hold 4 of 6" blades
Coring: 1 1/4" x 8"
1" x 10"
3/4" x 7", 10"
5/8" x 7"



Optional Accessories:

- Hydraulic Top Link
- Rear Roller
- Core Collector
- All Weather Cover
- Alternative Drive Sprockets for Faster Tractor
- Tine Adapter Blocks
- Split Roller
- Hydraulic Transport System (Bogey)
- Sod pre-planting pre-aerating tine



Southern Green also offers different head adapters including slicer heads, multi tines and a wide variety of both solid and coring tines.



Southern Green offers new split rollers and rear roller assembly for units working on uneven soil conditions.

Distrubted by:



Southern Green offers a core collector with a canopy for all models of its Soil Reliever. The collector allows the particles from coring tines to be gathered and removed.

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Southern Green now offers a new hydraulic transport system (bogey) for all models of its Soil Reliever. This system allows the Soil Reliever to employ the same hydraulic cylinder to raise and lower the "bogey" and adjust the tine depth.

SouthernGreen



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The Benefits Of Involvement

*by Thomas E. Mason, Golf Course Superintendent
Birmingham Country Club, Birmingham, Michigan*

The Golf Course Superintendents Association of America has for the past few years concentrated its efforts addressing Image, Chapter Relations, Environment and Career Development. The membership could see that our image needed to be bolstered. Our chapters were floundering and inconsistent. The golf community needed the golf course superintendents to take a leadership role in dealing with environmental issues. Job security and employment issues called for programs in career development. Emphasis on these issues should lead to a better life for the golf course superintendent.

Image cannot be purchased. GCSAA can produce television segments, magazines, advertising, seminars, conventions etc., but if the local golf course superintendent doesn't project the image of a professional person, they will be ineffective. Image begins with the individual golf course superintendent. Words like competent, consistent, thorough, passionate, helpful, leader, encourager, motivator, detailed, understanding, friend and neighbor best describe an individual who is representing his/her profession to their local community. What words would those in your community use to describe you?

The affiliated chapters of GCSAA should be more than groups that get together to play golf. GCSAA's job is to provide information to the local chapter about legal issues, structure and disseminating the activities of other chapters. Your local chapter should be an opportunity to discuss problems and strategies associated with being a golf course superintendent in your area. Words like organized, synergism, coordinated, timely, committed, representative, thorough, detailed and accountable best describe professional attributes associated with service in the local GCSAA chapter. Is this training obtained from service in your local chapter?

The environment, as an issue, is probably the best thing that has ever happened to enhance the career of a golf course superintendent. Resources are readily allocated to fully understand the use and fate of pesticides. The GCSAA can print posters and magazine articles, fund research and issue advertise, but will be only partially effective. The local golf course superintendent is the obvious person to take a leadership position in his/her local community. People need to know that the golf course is safe. Wildlife is not dying, but instead flourishing. More trees are planted than removed. Turfgrass provides oxygen to sustain life. Turfgrass filters chemicals and fertilizers from waterways and ground water. The public needs and wants the golf course superintendent to be successful. What has your community learned from you about your golf course and its affect on the environment?

The GCSAA commitment to continuous improvement is shown in education programs, along with career development. One can find help in writing resumes, practicing interviews, writing letters in order to find employment. One can understand what a career as a golf course superintendent is all about from GCSAA. One can find information from the experience of others through GCSAA. It is up to the individual golf course superintendent to create the perception, to the golfing and non-golfing world, that a golf course superintendent is a professional. A professional that is synonymous with words like competent, resourceful, proactive, thorough, detailed, principled, dedicated, passionate and innovative. Do you see yourself in this description?

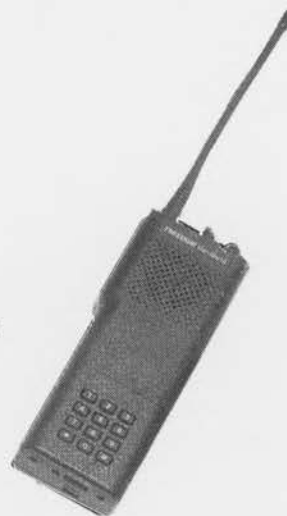
The people living in most communities probably don't know much about the nuances of chemicals and fertilizers. They may not be aware of employment issues. They probably know very little about tractors and mowers. They may be uncertain about golf's impact on the environment. On the other hand, people in most communities are very aware of professionals who are role models and employers of their family members. They know about professional people who are organized and provide leadership to their schools and churches. They know about professional people who are principled and teach baseball, basketball, football, soccer, etc. to their children. They know about professional people who they are proud to have as friends and neighbors. What does your community know about you?

As a golf course superintendent, you represent me to your golfers and your community. I represent you as I interact with golfers and my community. We all need to become involved in our profession and our community if we want Image, Chapter Relations, Environment and Career Development as our Association's mandates. Have you thought about making them your own personal mandates?

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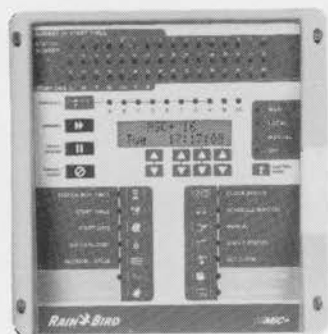


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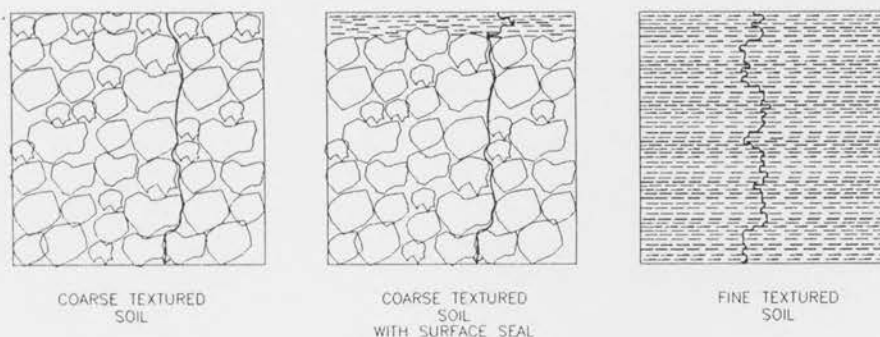
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SOIL MOISTURE INFILTRATION RATES

By: David B. Beck, P.E.
David B. Beck & Associates, Inc.
Ann Arbor, Michigan

In the last irrigation corner we looked at the limitations of the soil moisture reservoir and the characteristics of small water holding capacities for turfgrass soils. Compounding the problems associated with the soils water holding capacity are the limitations associated with its ability to absorb water. A soil's infiltration rate is a measure of the speed at which water moves into a soil. Infiltration rates vary dramatically, depending on the type of soil and management practices applied to the soil's surface. In sites without any surface restrictions, sandy soils (coarse textured soils) have a much higher infiltration rate than clay soils (fine textured soils). Since sandy soils are made of relatively large soil particles, the void space between the particles is also relatively large, allowing water to flow more freely and directly between the particles. Clay soil particles, on the other hand, are extremely small. The void space, although larger in volume than the sand, is much smaller in size between the soil particles. Water must squeeze through the smaller holes and a much less direct path is required to move around the soil particles. Therefore, it takes more time for water to move into and through the finer textured soils. As with soil moisture reservoirs, soils are seldom made of pure sand or pure clay and therefore water intake rates vary dramatically from one location to the next.⁽¹⁾

Figure #1
Soil particle diagram showing a water infiltration path.



Most published infiltration rates were established using extremely controlled conditions. In reality, recreational turf typically has problems with compaction and other factors, which tend to seal the surface of the soil profile, resulting in infiltration rates less than 0.25"/hr.⁽²⁾⁽³⁾⁽⁴⁾ It's not unusual to find medium and coarse textured soils with infiltration rates less than 0.10 inches per hour. In fact: even greens constructed to the most stringent soil and drainage conditions will experience significant reduced infiltration rates over time. Fairway and rough areas which do not receive the intense cultivation of most green complexes are subject to even more dramatic reduction in infiltration rates as a golf course ages.

Table #1
Soil Infiltration Rates for various soil types.

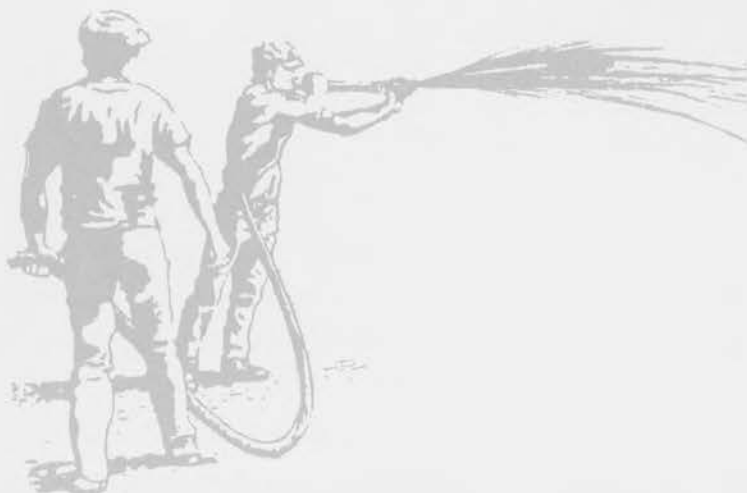
Soil Type	Infiltration Rate (in/hr)
Coarse (sand)	0.35-1.0
Moderate Coarse (sandy loams)	0.25-0.75
Medium (loams, silt loams)	0.20-0.50
Mod. Fine (clay loams)	0.12-0.40
Fine (clays)	0.05-0.30

Reference: #1 Pair, C.H. Irrigation, Irrigation Association

Characteristics of soil moisture reservoirs and soil intake rates combine to produce dramatic limitations on irrigation system operations. Sandy soils have a greater ability to intake water but are limited in their ability to store water. It is easy to over-irrigate sand soil, since water moves readily into and through the small soil moisture reservoir. Clay soils have a greater ability to hold water but infiltrate water very slowly. It is easy to produce runoff and associated drainage problems with clay soils, since in most cases irrigation systems apply water faster than the soil can infiltrate. Solutions to these soil-water restrictions lay not with soil modification but with irrigation management. In upcoming issues we will study irrigation system characteristics and outline irrigation management methods which readily overcome the limitations of these soil moisture restrictions.

REFERENCES:

- 1) Pair, C.N. 1983 Editor in Chief Chapter 4-Soil-Water-Plant Relations, Irrigation, The Irrigation Association.
- 2) Nus, J.L. 1993, The ABCs of Efficient Irrigation, Golf Course Management. Vol. 6, No. 2 February 1993, p 104-118
- 3) Davis, R.R. 1963. Effects of Traffic on Soils, USGA Green Section Record. Vol. 1, No. 1, May 1963, p. 10
- 4) Hamilton, G.W. Waddington, D.V. Watschke, T.L. 1990. Infiltration on Lawns, Agronomy Abstracts October 1990, p. 174-175
- 5) Schwab, G.O.; Frevert, R.K.; Edminster, T.W.; Barns, K.K., 1981. Chapter 3-Infiltration, Evaporation, and Transpiration, Soil and Water Conservation Engineering, John Wiley and Sons, Inc.



Industrial and Environmental News

by Rick Murphy, CGCS

Federal regulations, state regulations, county regulations, township regulations - where, pray tell, does it end? Who knows...but staying informed on industrial and environmental matters will help us as golf course superintendents (and anyone reading this) manage our facilities as best as it can be done. To this end, we will periodically reprint or publish information we obtain in *A Patch of Green*. Because we all have access to different information, if you come across something that should be shared with the membership in this regard, please let me know. Call me at (248) 363-0144 and I'll pass on the news.

OPERATION CLEAN SWEEP

The Michigan Department of Agriculture will once again sponsor Operation Clean Sweep. This program was developed to help end-users of pesticides to properly dispose of unwanted chemicals. Program costs are covered by the Michigan Groundwater Stewardship Program, a grant from the EPA and services provided by the local cooperators. This service is provided free of charge, except there may be testing costs to identify unknown chemicals. Since each individual situation will be evaluated by the cooperators, a phone call to the cooperators is advisable.

The Groundwater Stewardship Program has been establishing permanent Clean Sweep disposal sites statewide and recently announced that a total of 11 will be operating in 1998. The following four sites are located in southeastern Michigan:

Thomas G. Waffan
SOCRRRA
3910 West Webster Road
Royal Oak, MI 48073-6764
248-288-5150

Chip Hughes
Lapeer County Health Dept.
1575 Suncrest
Lapeer, MI 48446
810-667-0391

Steve Kunselman
23480 Sumpter Road
Sumpter Township
Belleville, MI 48111
313-461-6201

Elwin Coll
Macomb County Health Dept.
43525 Elizabeth
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I can't think of a better opportunity to properly dispose of unwanted pesticides and, in the process, clean out our pesticide facilities. It is also comforting to know that some of our taxes are being spent wisely. A special thanks to Greg Lyman for supplying this information. For further information on Clean Sweep of the Michigan Groundwater Stewardship Program, contact Jack Knorek at 517-335-2874.

STATE TIDBITS

The use of plastic bags to dispose of lawn and garden compost at composting facilities would be banned under H.B. 4730.

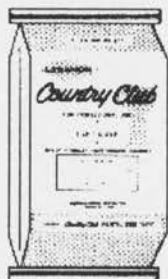
Michigan H.B. 5114, which would increase fines for violations of wetlands permits from \$25 to \$2,000, has passed the House and gone to the Senate for consideration.

Michigan's legislative calendar for 1998 is 1/14/98-12/3/98.

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**TO: GREATER DETROIT GOLF
COURSE SUPERINTENDENTS
ASSOCIATION**

I would like to take this opportunity to thank the Board of Directors and you, the members, for all of your help and support during my campaign this year for Director of G.C.S.A.A. You can be proud of your efforts, as I was successful in winning a seat on the board. I would like to especially thank your delegate and my friend Tom Mason for all of his efforts. Without this support and help we would not have been able to get Michigan back on top.

Three other people who deserve credit are the ones who ran a successful Michigan Room. The change in format, room layout and size, was very, very nice. This from a person who believes in tradition and who has run a few rooms in his past out of suites that were overcrowded, hot, loud, but always fun. Kate Mason, Mike Jones, and John Fulling did an outstanding job and have set a new standard.

Your calls, letters, and e-mails have been very touching and humbling. I am honored to serve, representing you. The work and travel has already begun but it is fun. I hope to be able to thank most of you in person sometime this year. Thank you just does not say enough to express my gratitude.

If I can be of any help with regards to a GCSAA question, comment, concern, or problem, please do not hesitate to call. Thank you again.

Sincerely,

Jon D. Maddern, C.G.C.S.

9400 Rouse Rd.
Atlanta, MI 49709
Phone: (517) 785-2275
Fax: (517) 785-3484

**Board Meeting Highlights
Knollwood Country Club
Monday, January 19, 1998**

FINANCE (McKinley)

Assn Checking: -\$4,550.42 Savings: \$46,587.60
Foundation Checking: \$257.03 Savings: \$21,985.30

MEMBERSHIP (Thommes)

Membership 405. Applications approved - 3

EDITORIAL (Dorner)

Roster - Mailing date slated for Feb. 1.
1998 POG - Rates to remain the same. Spring Issue to be mailed April 1.

HOSPITALITY ROOM (Jones)

Plans finalized with hotel.
Welcoming committee - MSU Turf Club
Business cards will be handed out with room info at MTF Conference and in Anaheim Official title "The Michigan Room"

EDUCATION (Murphy/Jones)

Committee Goals:

- 1) To increase member attendance
- 2) To maintain meeting costs @ \$50 or less
- 3) To improve educational content

1998 Meeting Schedule: Not finalized
GCSAA Regional Seminar: November 10, 1998;
Title "The Supt as the Grow-in Mgr"
Etonic Leadership Series: February 23, 1998

GOLF DAY (McKinley/Dorner)

Monday, October 5, 1998
Sites: Bay Pointe, Barton Hills, Katke Cousins

AWARDS (Murphy and McKinley)

Heritage - Winners: Kelly Ashworth and Megan Kirtland
Turfgrass Student Scholarship - Winners: Dennis Cook/
2- yr program and Andrew Keilen/ 4-yr program
John Walters Award - Winner: Bob McMurray
Distinguished Service-Committee has not yet made selection.

CHRISTMAS PARTY (Kolbe)

1997 - Site: Walnut Creek CC, Attendance: 113.
Comments: DJ was a hit. Job well done.
1998 - will be planned by Social Committee - Co-chairs: Abbott and Schall

MTF (Dushane)

Carey Mitchelson to run against Jim Timmerman for the GDGCSA seat on the MTF board. Donations to Research and Scholarships will be made at Conference by Kolbe. Gene Johanningsmeier to be awarded Honorary member status at retirement reception.

GAM SEMINAR (Szyndlar)

Date: Saturday, March 21
Site: Detroit Golf Club

INDUSTRIAL AND ENVIRONMENTAL RELATIONS (Murphy)

Info is received weekly from GCSAA re local, state and national legal briefs. Reprint of articles relevant to GDGCSA members will be in *A Patch of Green*.

PAST PRESIDENTS LUNCHEON (Kolbe)

Date: Was held on Jan. 15
Site: Maple Lane GC
Attendance: 8 Past Presidents
Opportunity for Past Pres. to share concerns and insights with new Pres. Kolbe.

MADDERN "National Director" Campaign (Kolbe)

GDGCSA donated \$1,000

GCSAA ENDOWMENT (Dushane)

Purpose: Superintendent Education & Research for Environment Positives. Goal: \$3.5M
Chapter Goal: \$350,000
Asking each chapter to donate \$10,000 over a 5-year period.
Decision tabled.



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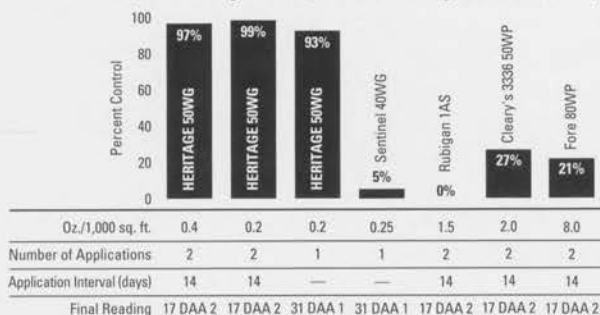
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Anthracnose¹ (*Colletotrichum graminicola*) on 80% Annual Bluegrass, 20% Perennial Ryegrass

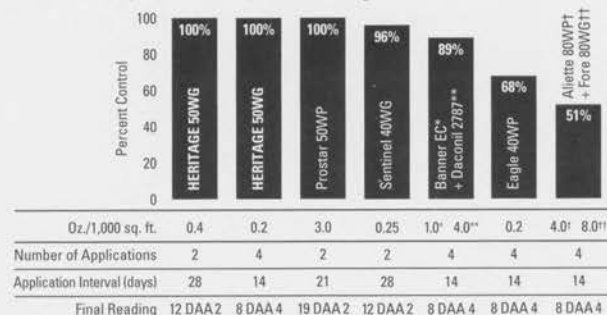


Dr. Don Scott, Purdue University, 1995

US 67-95-P354

¹ Also isolated from plots: 2 species *Rhizoctonia*; 3 species *Pythium*; and several species *Phytophthora*.

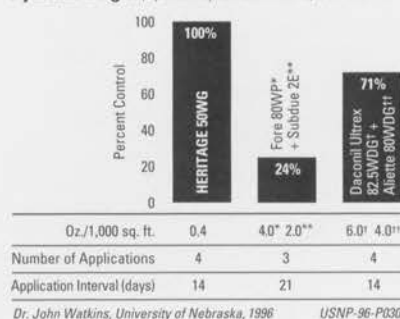
Brown Patch (*Rhizoctonia solani*) on Colonial Bentgrass



Dr. Pat Sanders, Penn State University, 1994

US 66-94-P356

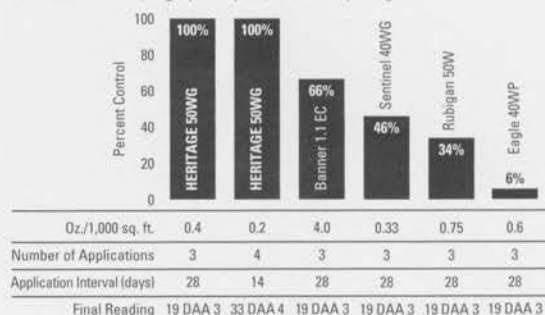
Pythium Blight (*Pythium aphanidermatum*) on Perennial ryegrass



Dr. John Watkins, University of Nebraska, 1996

USNP-96-P030

Summer Patch (*Magnaporthe poae*) on Kentucky Bluegrass



Dr. Bruce Clarke, Cooke College, Rutgers University, 1994

US 66-94-P362

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**Board Meeting Highlights
Knollwood Country Club
Monday, March 2, 1998**

FINANCE (McKinley)

1998 Budget proposed and accepted for \$133,700.
Financial statements will be available by the Mar. 31 mtg.

MEMBERSHIP (Thommes)

Membership 407. Applications approved - 2

EDITORIAL (Dorner)

Spring Issue - to be mailed April 1.
Articles to be submitted by Board members ASAP
include: Michigan Room, Industrial Relations, President's
Message, Special Olympics, February Mtg, GAM Seminar

MICHIGAN ROOM (Jones)

Room was very popular. Many in attendance. Board
commended Jones on a job well done.

EDUCATION (Murphy/Jones)

Feb mtg - Etonic Leadership Series Speaker, Tom
Maloney, spoke on "How to Find and Hire the Best
Employees". Attendance 68. Program well received.
1998 Meeting Schedule: Not finalized
Mar 21 - GAM Seminar
April mtg - Joint Canadian

GOLF DAY (McKinley/Dorner)

1997 - Some vendors still have not honored their
pledges. Letter will be sent to them from Chairman.
1998 - Monday, October 5, 1998
Sites: Bay Pointe, Barton Hills, Katke Cousins, Lochmoor.
Need 1 more site. Donations: Consider "Beard
Fellowship" as a recipient of portion of revenue.
GCSAA rejected application for matching research funds
program for Vargas research. Dushane to inquire.

SPECIAL OLYMPICS (Thommes/Schall)

Date: Friday, May 15, 1998
Site: Bald Mountain Golf Course
Vendors will be encouraged to use this opportunity, when
sponsoring tees, to display equipment & products.

AWARDS (Murphy/McKinley)

Turfgrass Student Scholarship - Seems to be a lack of

interest in the award. Not many applicants. Remedies to
be considered.

Distinguished Service - Ward Swanson will be the
honoree for 1998. Presentation at GAM Seminar. Change
of venue for presentation to be considered for 1999.

GAM SEMINAR (Szyndlar)

Date: Saturday, March 21
Site: Detroit Golf Club
Szyndlar cannot attend. Thommes agreed to emcee.

**INDUSTRIAL AND ENVIRONMENTAL RELATIONS
(Murphy)**

Info on "Operation Clean Sweep", a state sponsored
program for the disposal of unwanted pesticides will be
reprinted in the Spring Issue of *A Patch of Green*.

BOARD MEMBERS ATTIRE (Schall)

Board members will wear a coat & tie to educational
meetings. A sport coat will be recommended to the
general membership as appropriate dress for educational
portion of meetings.

MADDERN "National Director" Campaign (Kolbe)

Received thank you letter from Jon Maddern.

NEW EQUIPMENT (E.S.)

Postage meter (rental) - Upgrade to electronic machine
required by US Postal Service. Increase in rental fee.
Copier - Present machine (5 years old) not adequate to
meet the increased demands of the Assn. Options to be
investigated and presented at next mtg.

SOCIAL COMMITTEE

For consideration: Michigan Spouse Program @ Orlando.
To promote interaction/relationships between spouses via
activities: i.e., meals, sightseeing, events.

TURFGRASS CLUB (Kolbe)

Requested donations of \$250 to support The Great Lakes
Turfgrass Invitational Academic Competition. Request
considered and denied.



Jeff Kovich

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Mailing Address: (Check One) <input type="checkbox"/> Home <input type="checkbox"/> Business		
Home Phone:	Office Phone:	Fax:
Are you a GCSAA member?:		Are you a CGCS (Certified Supt.)?

PRESENT POSITION

Title of Current Position:
Starting Date of Current Position:

PAST POSITIONS HELD

From/To	Title	Place of Employment	City/State

Each application must be signed (attested) by two members (SUPERINTENDENTS) of
GDGCSA, who certify as to the reliability of the applicant's information as stated above.

Attestor:	Date:
Attestor:	Date:

If accepted, I hereby certify that I will observe the constitution and by-laws of the
Greater Detroit Golf Course Superintendents Association and the Code of Ethics of the
Golf Course Superintendents Association of America.

Signature of Applicant:	Date:
-------------------------	-------

Do not include a check with this application

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GDGCS

1998 Calendar

April 27	CC of Detroit	Joint Meet w/ Ontario GCSA
May 15	Bald Mountain	Special Olympics
June 29	Travis Pointe CC	
July	Site & Date TBA	
Aug. 6	Links of Pinewood	"The Invitational"
Aug.	Site & Date TBA	Picnic
Sept.	Site & Date TBA	Annual Meeting
Oct. 5		Golf Day "The Big Event"
Oct. 29	Novi Hilton	Management Meeting
Nov. 10		GCSAA Regional Seminar
Dec. 8	Birmingham CC	Superintendent Only Meeting

Mid-Michigan GCSA

1998 Calendar

April 28	Duck Lake CC	Joint Meeting with Western Michigan
May	Site & Date TBA	
June	Site & Date TBA	
Aug.	Site & Date TBA	
Sept. 28	The Dream - West Branch	Golf Day MTF Fundraiser
Oct.	Site & Date TBA	Annual Meeting

Western Michigan GCSA

1998 Calendar

April 28	Duck Lake CC	Joint Meeting with Mid-Michigan
May 21	Spring Lake CC	
June 29	Travis Pointe	Joint Meeting with GDGCSA
Aug.	Mullenhurst	
Sept. 21	Cascade Hills	Golf Day MTF Fundraiser
Oct.	Site & Date TBA	Annual Meeting
Nov.	Kent CC	Fall Party

Northern Michigan Turf Managers Association 1998 Meeting Schedule

April 8	Grayling Holiday Inn	NMTMA Mini-Conference
May 14	A-Ga-Ming	
June 8	The Dream - West Branch	MTF Fundraiser
July 19	Beaver Creek	Picnic
Aug.	Site & Date TBA	
Sept. 15	Charlevoix CC	NMTMA Fundraiser
Oct.	The Heathlands	Onokama

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