

Pull the Plug on Soil Compaction.

Ryan[®] Greensaire[®] Aerators

Whether you need a walking, riding or towable aerator, the Ryan Greensaire series offers the productivity and versatility your course demands. The Greensaire 24 delivers 36 holes per square foot and has a walking transport speed of 4-mph. The Greensaire 30 riding aerator offers variable tine spacing and precise coring at depths of 3-3/4 inches. And for your fairways, the Cushman Greensaire 60 has a 60-inch coring width to aerate up to 1.5 acres per hour. For the leading aerators in the industry, come in or call today.



3080 Centerville Road St. Paul, Minnesota 55117 651.484.8411 • Fax: 651.484.8257 800.592.9513



www.ttcsp.textron.com ASRY-GA-0599 © 1999 Textron Turf Care And Specialty Products. All rights reserved. Printed in the U.S.A. TURF CARE AND SPECIALTY PRODUCTS

RYAN

HOLE NOTES

Official Publication of the Minnesota Golf Course Superintendents' Association

2001 MGCSA Board of Directors

Officers

President.....E. Paul Eckholm, CGCS Heritage Links GC 952/440-6494 Fax: 952/440-4655 epeckholm@msn.com Vice President......Rick Fredericksen, CGCS Woodhill CC 952/473-5811 Fax: 952/473-0113 r_fredericksen@msn.com Secretary.....Mike Brower Hillcrest CC 651/777-5186 Fax: 651/777-7463

mjbrow@qwest.net Treasurer.....Rob Panuska Waseca Lakeside Club 507/837-5996 Fax: 507/835-3472 rpanuska@prairie.lakes.com

Ex- Officio......Tom Fischer, CGCS Edinburgh USA 763/315-8575 Fax: 763/315-8585

Directors

James Bade.....Somerset CC 651/457-1161 Fax: 651/455-2282 jbade@aol.com

Michael Brual.....Faribault G & CC 507/334-8101 Fax: 507/334-9653 mikebrual@faribaultgolf.com

Kerry Glader.....Plaisted Companies, Inc. 763/441-1100 Fax: 763/441-7782 kbglad@aol.com

Barry Hines......Mill Run Golf Course 3905 715/834-5942 Fax: 715/830-2123

Jeff Johnson......The Minikahda Club 612/926-4167 Fax: 612/926-0602 taj52@aol.com

Ted Schirck......Hydrologic 763/542-1188 Fax: 763/546-7515 tschirck@hydrologic.net

Steve Shumansky.....Perham Lakeside CC 218/346-6071 Fax: 218/346-6079 plcc@eot.com

Dan Swenson......River Falls Golf Club 715/425-2838 Fax: 715/425-0160 rfgc@pressenter.com

Richard Traver Jr., CGCS......Monticello CC 763/295-3323 Fax: 763/271-0124 supytrav@soncom.com

> Editor Richard Traver, Jr., CGCS supytrav@soncom.com

Editorial and Business Office: Scott Turtinen, Executive Director Minnesota Golf Course Superintendents' Association 240 Minnetonka Avenue South, P.O. Box 617 Wayzata, Minnesota 55391-1617 Tel: 952/473-0557 Fax: 952/473-0576 Toll Free: 1-800-642-7227 E-mail: scott@mgcsa.org From Your President's Desk

Take A Moment to Step Back To Take Stock of Your Life



E. Paul Eckholm, CGCS

In the wake of the WTC tragedy we must all be watchful of things out of the ordinary. The Bureau of Alcohol, Tobacco and Firearms has asked all those with supplies of chemicals and fertilizers to keep them locked and inventories managed to prevent unauthorized use of these products. It is also prudent to take a moment and step back to take stock of your life. Think about the things that really matter... family, friends and loved ones. Take stock of your finances and be sure that you will be providing for those left behind if, God forbid, something bad were to happen to you. Last of all, take care of yourself.

On September 25th the Research Scramble was played at Edina Country Club. The field was full and the day was as nice as it could get. Our thanks go out to Mike Kelly and his staff for having the golf course in excellent condition. My team was able to one-putt 14 out of 18 holes, none of the putts were mine. Congratulations to the team from Hillcrest Golf Club of St. Paul, the winners at 13 under.

* * * *

In the "what's going on" department, the Board is busy preparing for the annual meeting in December. Tom Fischer has put together a great slate of candidates. James Bade and the education committee have made the seminar portion of the conference as strong as it has ever been. Plan to attend the conference; it is going to be one of the best ever.

* * * *

On that same line, the MTGF is considering running the annual conference in conjunction with the MNLA conference. This would offer all of us a greater educational experience as well as an expanded trade show. The plus side of this plan far outweighs the down side. Stay tuned for more information in the future. If you have strong feelings on this matter, I would suggest that you call Larry Vetter and let him know how you feel.

* * * *

Fall is upon us and all of us are looking forward to the slower part of our seasons. Take time to recharge and experience the season for right around the corner is the white stuff.

Respectfully, Paul Eckholm, CGCS epeckholm@msn.com

HOLE NOTES (ISSN 108-27994) is published monthly except bi-monthly December/January, February/March for \$2 an issue or \$20 per year by the Minnesota Golf Course Superintendents' Association, 240 Minnetonka Avenue South, Wayzata, MN 55391-1617. Scott Turtinen, publisher. Periodicals postage paid at Wayzata, MN. POSTMASTER: Send address changes to HOLE NOTES, 240 Minnetonka Avenue South, Wayzata, MN 55391-1617.

Inside This Issue of Hole Notes

- 1 Hillcrest Golf Club Wins 2001 Stodola At Edina Country Club
- 9 North Central Regional Update By Bob Vavrek
- 10 Approaching Fall Maintenance/Renovation By Bob Brame
- **13** Polorkote[™] Products
- 17 Take Time to Winterize By Jim Bald, Grounds Maintenance Magazine
- 24 How Long Can You Irrigate Without Runoff? By Joe Y.T. Hung
- **30** Sample Employment Contract by GCSAA
- 35 Borman Named GCSAA Chief Operating Officer
- **36** B.S. Degree in Turf Management And Horticulture at Anoka-Hennepin

Departments

- 3 From Your President's Desk - Paul Eckholm, CGCS
- **40** Drive for the U Program
- 42 Editor's Report Richard Traver, Jr., CGCS

Advertisers

Century Rain Aid	
Classified Ads	
Country Club Turf	
Cushman Motor Co., Inc	
Double Eagle Golf Construction	
DBI	
DTN Weather	
E.H. Renner	
Gill Miller, Inc	
Glenn Rehbein	
GreenImage	
GreenImage	
Hassan Sand & Gravel	
Hartman	
Herfort-Norby	
Hydrologic	
Howrey Construction	40
Leitner Company	
Minnesota Golf Cars	
MTI Distributing Co	
North Star Turf.	
North Star Turf	
Par Aide Products Co	
Plaisted Companies Inc	
Precision Turf & Chemical	
Premier Irrigation	
Prinsco	
RDO Equipment	
Simplot Partners	
Syngenta	
Syngenta	
Turf Supply Company	
Twin City Seed	25
This ory cook	

MGCSA CALENDAR

Tues.-Thurs., December 4, 5, 6 MGCSA ANNUAL BUSINESS MEETING AND MTGF CONFERENCE AND SHOW Minneapolis Convention Center



JEFFREY HARTMAN, PRESIDENT . RENOVATION . SITE DEVELOPMENT . LANDSCAPING . HIGH TECH DRAINAGE TECHNIQUES . DESIGN . EXCAVATING . GRADING

952/443-2958 FAX 952/443-3452

GOLF DIVISION

8011 BAVARIA ROAD VICTORIA, MN 55386



4 HOLE NOTES

New Yorkers Appreciate Support of GCSAA Chapters

(Editor's Note: This message is sent on behalf of John Carlone, CGCS, president of the Metropolitan GCSA.)

Dear GCSAA Affiliated Chapter Representatives:

On behalf of all the members of the Metropolitan GCSA, I would like to thank you for the outpouring of prayers, words of sympathy and acts of kindness directed to our members following the tragic events in our great city. We sincerely appreciate your support during this time of sorrow.

Many golf course superintendents in New York City and the surrounding area had family members, members of their golf facilities, friends and relatives that were directly impacted by the terrorists attacks. We are a strong chapter and one that will persevere through this unthinkable act.

Several of you contacted me recently to ask what your chapter could do to help with the relief efforts. I have asked The GCSAA Foundation, which is a charitable organization that can receive tax deductible contributions, to assist the Metropolitan chapter with accepting and administering donations. If your chapter would like to make a donation to the American Red Cross Disaster Relief Fund or the FDNY and NYPD Relief Fund (this fund provides relief to the children of the firemen and policemen who died in the act of duty during the attacks on the World Trade Center) through The GCSAA Foundation, please make your check payable to The GCSAA Foundation – Relief, and mail it to:

The GCSAA Foundation P.O. Box 419004 Kansas City, MO 64141-6004 Your chapter will receive credit for your donation within The GCSAA Foundation's Cumulative Giving program. All donations received by November 1, 2001 will be forwarded to the American Red Cross and the FDNY and NYPD Relief Fund to assist with the national relief efforts. Once donations are received, I will coordinate with GCSAA and The Foundation to present the contribution on behalf of GCSAA affiliated chapters.

If you have any questions, please feel free to contact me at (516) 935-6505 or Teri Harris, director of development of The GCSAA Foundation, at (800) 472-7878, ext. 465.

Again, thank you for your emotional and financial support. It makes me proud to be associated with a profession that is always willing to help in times of need.

Sincerely, John Carlone, CGCS The Meadow Brook Club Metropolitan GCSA President

Additional Relief Efforts

On behalf of all members, GCSAA has contributed \$50,000 to the American Red Cross Disaster Relief Fund. Additionally, the proceeds from the annual Robert Trent Jones Invitational Tournament, hosted by the Metedeconk National Golf Club, which normally benefit scholarships, research and education, will be donated to the relief efforts.



OCTOBER 2001

CLASSIFIED ADS

FOR SALE + Toro 5100 Fairway Unit 3800 Hrs. **Excellent Operating Condition** +1985 3-wheel Cushman w/100 gal. spray rig and foam mkr. +1995 Jacobsen Turfcat Rotary Mower w/flail mower attachment, 2000 hrs. All of the above listed equipment is presently being utilized. Will entertain serious offers above the present minimal trade values. Contact DAN or GREG St. Cloud Country Club 320-230-3331 or email grounds@stcloudcountryclub.com

FOR SALE

2 Lesco Tryplex Greensmowers. 680 hours. \$800/per mower.

Contact: JEFF VINKEMEIER Glencoe Country Club 320-864-6872

FOR SALE

3 Jacobsen Greensking IV reels with groomers and rear roller brushes. \$400.

3 Toro greens verti-cutting reels. \$300.

3 Lesco 7-bladed cutting reels. \$100.

3 1996 John Deere 220 A (walkers) greens mowers, 11 bladed units, mint condition. \$1,900 each.

1 1996 John Deere (220 A walker) trailer for greensmower. \$500.

Contact: KEN or TOM Brackett's Crossing 952-435-2543

FOR SALE

1999 68DL National Deluxe Mower with 50 hours on it. \$5,300 or make offer. Contact: RICHARD GEIKE Fritz's Resort (218) 568-8988

FOR SALE

2 Cushman Trucksters, circa 1980? Models 898531 and 898532 One ran last we drove it, other with bad engine Will sell as a pair to first reasonable offer. Contact: MIKE COHRS Bluff Creek Golf Course (952) 445-5588 or (612) 799-0605

FOR SALE 115 Cast aluminum round tee markers. \$28.75 each (new). Will sell entire set for \$1,000. Contact: SCOTT GREENFIELD Spooner Golf Club (715) 635-6438

FOR SALE Neary Model 500 SR Spin & Relief Sharpener (used less than 50 hours) includes vacuum attachment......\$9,500 Rhino Model TX 115-HD PTO Wing Mower (used less than 10 hours) 3-deck finish cut rotary mower, 11.5-ft cutting width. \$7,900 Contact: TIM COMMERS Cushman Motor Co., Inc. (612) 333-3487

FOR SALE

(8) Moody Rainmaster
Model MA Irrigation Clocks ~ Free
1968 Ford 3500 Backhoe ~ \$6,900
1994 Jacobsen TriKing ~ \$2,950
1995 Lastec 721
Articulator Rotary ~ \$5,990
1988 Jac 720 Sweeper ~ \$1,995
1998 Grass Craft Hover
Mowers (2) ~ \$400 ea.
Contact: ERIC PETERSON
Dellwood Hills Golf Club

(651) 426-3218

FOR SALE

Air Max Circulating Fans (2) Less than 10 hours use. 5hp Briggs I/C, new condition. \$500 each Contact: CHAD BRAUN Prestwick Golf Club (651) 459-0288 **FOR SALE** Goosen Bale Chopper 13hp motor, used very little. \$3,000/make offer Contact: STEVE SCHUMACHER Izaty's Golf & Yacht Club (320) 532-4284

FOR SALE

1995 Friend Speed Roller with Trailer National PTO-driven 5-gang Fairway Reel Mower ...plus extra set of 5-gang verticut reels (1987) ~ \$2,000 Make offer Contact: RED or MIKE Edina Country Club (952) 922-9012

FOR SALE

For Sale: 5 gang Jacobsen Blitzer pull-type rough mower. Make an offer. Contact: JOHN MONSON Long Prairie Country Club 1-320-732-2341 or 1-320-732-3696 at night.

FOR SALE

Toro VT4 Controllers with pedestals Quantity of 10 @ \$250.00 ea. Contact: BROOKS or LEROY (320) 963-3533

> WANTED Driving Range Ball Washer Contact: KEVIN Crow River Country Club (320) 587-2785

FOR SALE

1990 7-blade Toro Fairway Mower 450-D Unit sharpened and ready-to-go ~ \$6,000 or best offer 7-gang Spartan Rough Mowers + frame, sharpened and ready-to-go Contact: MARK BOONSTRA Hollydale Golf (763) 559-4458

FOR SALE

Greenskeeper by Broyhill Set of 3 spikers for Toro Greensmower. Make offer. Contact: DAVE SIME Benson Golf Club (320) 843-2109

FOR SALE

1987 Case 585 Diesel Tractor w/turf tires ~ 1,398 hours. Excellent condition. \$10,500 or best offer Contact: TOM KASNER Albany Golf Club (320) 845-4306

FOR SALE

7-gang Jacobsen Fairway Mower. Good Reel Stock RTC 2 reels for parts and 1 new reel included.....\$2,000 1998 Jacobsen 26" walk behind Greensmower with groomer. Low hours....\$4,000 Older Jacobsen walk behind Greensmower. Fair to good shape...\$350 or best offer. Contact: LEROY Dawson Golf 320-226-0512 320-598-7787 evenings

MGCSA ANNUAL BUSINESS MEETING WEDNESDAY, DECEMBER 5, 2001 AT THE MINNEAPOLIS CONVENTION CENTER DURING THE MTGF CONFERENCE AND SHOW

6 HOLE NOTES

OCTOBER 2001



1-800-422-1487





Call Century for Solutions

Golf Course Irrigation & Pump Stations Controller Board Repairs/Replacements & Fountains/Lighting and More

At Century Rain Aid, we have been working with golf course superintendents for more than 25 years helping them solve irrigation problems. Your local Century Golf specialist can help you replace a few rotors, update your existing system or plan new construction. Century represents the industry's leading manufacturers and we offer a wide range of solutions to meet your budget and renovation schedule.

HUNTER GOLF

With Hunter rotors, valves and central control systems you can achieve reliable, water-efficient irrigation throughout the course.

PUMP STATIONS

An updated pump station can solve many site problems. Your local Century Golf rep can help you design and install a cost-effective pumping system.

FOUNTAINS, CLUBHOUSE LIGHTING

Water features and landscape lighting can enhance your course. Talk with your Century Golf rep for ideas on making your site more attractive year-round.

BOARDTRONICS CONTROLLER BOARD REPAIRS

Replace worn or outdated boards for Toro® and Rain Bird® controllers. Fast 48-hour repair service: 888-855-9132.

Century has the solutions . . . call today for an on-site consultation.



Slit Seeding vs. Core Cultivation/Overseeding

By BOB VAVREK USGA

Many courses across the Region experienced significant turf loss during the hot, droughty stretch of stressful weather this summer. Now that cooler temperatures and rainfall have returned questions are raised regarding the most effective techniques for returning a severely damaged site to a playable condition.

Repairs using sod or plugs of turf yield almost immediate improvement. A properly sodded site can accommodate play after approximately three weeks, under ideal growing conditions. Motorized carts, however, should still be diverted from sites repaired with sod for a considerably longer period of time using ropes and stakes if necessary

Not all courses have the money and labor available to undertake an extensive renovation project that requires sod. A less expensive and labor intensive option is to overseed thin or bare areas after hollow tine core cultivation or overseed using a slit seeder. Which operation produces the fastest results or should a combination of both techniques be employed?

In general, slit seeders produce the best results in the most severely damaged sites - areas that are bare or areas with very little turf cover. The unit must be adjusted properly to ensure good seed-to-soil contact. It is easier to cut a clean channel and drop seed into bare turf than a site with clumpy or partial turf cover. Furthermore, when the seed germinates in a slit cut into bare areas, it will have little competition from mature plants. Cut seed into an area having a fair amount of healthy turf cover and many of the seedlings will not be able to compete with the nearby mature plants. Turf species that have a slow rate of establishment, like Kentucky bluegrass, can be especially sensitive to competition from existing plants. Incidentally, always overseed in two directions (diamond pattern) to accelerate the rate of recovery, and inspect the slits frequently to determine whether or not seed is being dropped directly into the grooves.

Core cultivation followed by overseeding is the better option for improving turf cover in weak areas where a significant amount of turf cover still exists. Use large 5/8" diameter hollow tines and cut the tines or adjust the unit to produce shallow holes. Process the cores with vertical mowers and overseed just before the soil is matted or brushed back into the holes. Seedlings in the large holes have more time to mature before they have to compete with the nearby turf compared to seedlings growing in a narrow slit. In addition, the aeration operation relieves compaction and improves the exchange of air and moisture into the root zone of existing turf and the new seedlings.

Regardless of the renovation method, be sure to apply an appropriate amount of starter fertilizer to the site and keep the seedbed moist using automatic irrigation or hand watering if necessary. A clean straw mulch can be helpful during establishment and its' presence will keep golfers, well, some golfers, off the damaged sites during the recovery process.

Hard to believe it's nearly time to initiate early fall snow mold treatments

* * * *

(Editor's Note: Bob Vavrek may be reached at rvavrek@usga.org or 262-797-8743.)

The Minnesota Pest Control Law was revised and requires (effective January 1, 2002) that "Application of pesticide to the property of a golf course must be performed by a commercial or non-commercial pesticide applicator with appropriate use certifications."

OCTOBER 2001

ON THE ROAD WITH THE USGA Approaching Fall Maintenance/Renovation

By BOB BRAME USGA Director

The nights are getting longer and this means soil temperatures are dropping. Cooler soil temperatures point to some needed recovery for those who have experienced turf loss this summer. There has been a wide continuum with regards to the occurrence of hot and wet. Most areas of the region experienced their share of hot, but some stayed much drier than others. As you would expect, the courses that experienced heavier and more frequent rain-

fall have suffered the most. This is particularly true when heavy soils and heavy play were added into the mix.

During the last few weeks of travel I've been plagued by the dreaded question, "why are we in such poor condition when the course down the road looks great?" Often the individual asking the question doesn't want to hear that weather, soil type and play volume are the difference, even though it may be the

correct answer. The message is simple; learn

from the summer's problems, correct the limitations before next season, and don't try to compare your golf course to another course.

The intensity of summer diseases like Pythium and brown patch have softened recently. However, there has been somewhat of a resurgence of dollar spot. Active gray leaf spot disease has been confirmed on a few courses, and those with perennial ryegrass should take protective measures. The surge of fairy ring activity, observed earlier in the season, has completely faded away at most courses.



While the cooler nighttime temperatures will aid in stimulating recovery, closely monitor irrigation needs over the next few weeks. Most courses have shallow roots and generally vulnerable turf, which translates to less tolerance to wilt conditions brought on by higher evapotranspiration rates.

Scout carefully for grub activity. Grub damage was spot-

ted during the third week of August. Feeding grubs, weakened roots, and elevated

evapotranspiration rates don't yield a very positive combination. Mole activity continues to be a concern and some would tie this activity to grub populations. The spring-loaded harpoon traps available at lawn and garden supply outlets are being used by courses throughout the region to address the mole population.

Hopefully, aeration was on the calendar at your course for completion

last month. Early September aeration in concert with more aggressive feeding sets the stage for recovery and initiate the establishment of a solid foundation for next summer. While aeration has value even in the late fall, timing is important to achieve the best possible combination of benefits. The later aeration is moved into the fall the less opportunity the turf has to recover from this important management process. It seems that pressures increase with each passing year to push aeration work later in the fall, especially on the putting surfaces. Unduly accommodating

play can set the stage for problems down the road.

Should specific concerns/questions exist about how to approach fall maintenance/renovation at your course, give us a call (859/356-3272). As previously stated, courses cannot be accurately compared and this means the specifics of a maintenance program need to be custom fitted.

(Editor's Note: Bob Brame may also be reached at bobbrame@usga.org .)

Hopefully, aeration was on the calendar at your course for completion last month. Early September aeration in concert with more aggressive feeding sets the stage for recovery and initiate the establishment of a solid foundation for next summer. While aeration has value even in the late fall, timing is important to achieve the best possible combination of benefits.