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WINTER IS ON ITS WAY

by KEITH SCOTT, CGCS
MGCSA PRESIDENT

Even though most areas received more precipitation in 1989 than in 1988, Minnesota golf courses are still facing severe drought conditions. As cold weather approaches, I am sure that the thoughts of most superintendents will reflect back to the winter of 1988-89. Winter injury is among the most frustrating types of damage a golf course can experience, particularly when it is associated with snow and ice cover. Winter damage is impossible to predict. If turf is lost, the superintendent can be in a precarious situation with club officials because so little is known about the nature of the injury. Even though criticism is often unjustified, it’s no wonder that club officials sometimes become suspicious about the superintendent’s ability to deal with winter injury. Make it a point to inform your club that whatever means you use to protect your course, you are still at the mercy of Mother Nature. The fact is, there are many questions which remain unanswered.

Andy Lindquist, Superintendent at Brookview GC, has submitted his resignation to the MGCSA Board. Andy will be leaving Brookview to work in a field not associated with golf courses. We wish Andy success in his new venture and thank him for his involvement with the MGCSA.

The Minnesota Golf Course Superintendents Association has experienced tremendous membership growth over the past five years. Although education is cited as the main reason for joining, many of these new members are seldom seen at our various meetings throughout the year. Whether it is a financial problem or the demands of the job, I encourage you to discuss this issue with your club, maybe they can assist you in becoming more involved. Golf courses face many environmental issues and in order to be successful, you must continue to upgrade your education. Our Annual Conference, held November 29, 30 and December 1 at the Sheraton Inn Northwest, the one day Mini-Seminar held in March and our monthly meetings are some of the educational avenues available.

Willmar Country Club was the site of our October meeting. Over 50 people were treated to an enjoyable lunch and although the weather was brisk, a few hearty souls played on their fine golf course. Thanks to Superintendent James Wodash, to all the people at the Club for hosting this event and to the Kromer Co. for the equipment display.
A SHORT WRAPUP OF THE
1989 GOLF SEASON

by James Latham, Director
Great Lakes Region, USGA Green Section

A recap of the 1989 golf turf season is difficult because it was so varied—from sheer disaster to disappointment to downright delightful, depending upon where you were at the time. It was a year of opportunity for many because of an apparent return to the usual Midwestern climactic patterns and for others because Mother Nature suddenly eradicated Poa Annua in places few superintendents would dare to try.

At some time during the winter, golf courses from Michigan to Montana experienced classic winterkill of Poa Annua and perennial ryegrass. This phenomenon can be expected locally in almost any year, but seldom has it been so extensive. The greater Chicago area, for example, missed the experience by less than 60 miles, but the six states to the north, east, and west were extensively blessed (?) with this cheap Poa Annua control process.

It seemed to work this way:
- The soil was frozen.
- There was a thaw and the meltwater was retained at the turf surface (even with sand greens) in depressions, on gentle slopes or even flat spots where Poa Annua dominated in the past.
- The temperature dropped suddenly to well below freezing.
- Ice formed in the saturated crown tissue of the bunch grasses and destroyed cell structure.

To make matters even worse for some superintendents, the thin green cover materials did not prevent damage. The only escapes in the epicenters of winterkill were greens (etc.) which retained snowcover or those with thick, excelsior mats.

Comments by superintendents who used covers:
- The thin covers may have aggravated the situation by broadening the day/night temperature spread.
- The thick covers probably kept the green surfaces from thawing.
- Medium thickness covers on top of a rather heavy, late topdressing apparently gave enough insulation to prevent surface thaw or refreezing.

This situation was compounded by very poor growing conditions in early spring which defied attempts to reseed. Even Poa Annua seed germination was minimal. The superintendents who persevered with multiple reseeding operations now have bentgrass in quantity where it has not been in a long time. By initiating maintenance operations which keep it competitive, they can use Poa Annua suppressants to their best advantage. Otherwise, the spring miseries will return to plague them again and again.

Substantial losses of perennial ryegrass occurred in South Dakota and Wisconsin underlining their unreliability as a primary golf turf species in this latitude. They apparently need backup by Kentucky bluegrass, fine fescues or some type of more winter hardy grass.

There are, of course, exceptions to these loss patterns, but they were rare at the courses visited during Turf Advisory Service tours this year. In some instances, I simply confirmed the superintendent’s statements that it was impossible to predict the episode and that normal maintenance operations could not prevent this kind of winterkill. It became evident that agronomics must play a larger role in golf turf management so that bentgrass can become more competitive to help Poa Annua controls become more effective. Now that we have the means to suppress Poa Annua aggressiveness, it is possible to reestablish bentgrass and/or Kentucky bluegrass in key areas, but it is imperative that they compete or the cycle will begin again.

Some other strange events took place this season. The sudden appearance of mini-fairy rings on the greens at a couple of courses was one. At about the same time, similar rings elsewhere disappeared after a couple of years in residence. Why? How?

The black layer syndrome hasn’t gone away either. The sporadic rainfall pattern had a great deal to do with this—probably. Soil oxygen is still the key to prevention and cure. Internal drainage and the elimination of spongy organic layers by aeration and topdressing are necessities. And remember that black layers aren’t new. O. J. Noer commented on black odorous soil profiles in greens over 50 years ago. They were just harder to see at that time.

Supplying the anaerobic organisms with oxygen by applying potassium nitrate or similar materials will help to reduce immediate damage, but that is simply treating a contributing factor and not the cause. The cause of black layer in sand, clay, or stratified profiles is usually an excess of water.

The non-capillary (drainage) pores or air spaces are filled with water. Buried thatch becomes a saturated sponge. Layers of anything restrict the downward flow of water...
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which pulls air into the soil after it. And let’s not forget that plant roots need oxygen, too.

It seems that more clubs are accepting their greens Stimpmeter readings of 8 to 9 feet. A high percentage of the membership are enjoying that speed. There is also the realization that juicing the surfaces up to 11 feet from 9 for a member-guest event destroys the home course advantage. In other words, maybe speed-need is the figment of the imagination of would-be Tour-sits and not the will of the bill-payers.

There are, of course, clubs in which the majority of the members want tournament class greens at all times and are willing to pay for them. That’s fine with me as long as they realize that fast greens are, necessarily firm and that fast, firm, greens should be accompanied by fast, firm, fairways and the level of management they require. The bottom line is a golf course that equates 18 very large greens, mown at several heights of cut, but with the same general maintenance procedures throughout. That includes vertical mowing or brushing to minimize the tee toward green grain which comes from cart use on fairways. This applies to both bentgrass and bluegrass. Banning golf carts from the fairways usually destroys the intermediate roughs, so unless these vehicles are limited to roadways, be prepared for higher maintenance costs or lower quality playing conditions. Golf cars are like taxes—we do not like them but we do like the revenues they generate.

Speaking of golf car traffic, have you noticed the damage being done by the concentrated traffic of maintenance equipment? Some of the wear is in non-play areas, but certainly not all of it.

The traffic problem continues to mount on practice tees, where few golf operations have adequate space. Even fewer can do anything about it except recycle the available area they have. This brings rye grass to the forefront even though it is no more than temporary turf that will be destroyed in a short time. The best results have been attained by "using up" strips of turf across the width of the tees before moving play to another strip. The damaged strip is then double aerated and the cores broken up, followed by heavy (15-20 lbs. per 1,000 sq. ft.) seeding and topdressing or just mixing the seed with the soil from the cores. Rolling and fertilizing finish the job. Fungicide treated seed minimize the danger of damping off until a systemic fungicide can be applied—at about the time of the first mowing.

If you want to turn green with envy, just see the creation at St. Andrews Golf Course in Chicago, under the care of John Lapp. Acres of bentgrass and rye grass/bluegrass plus a 39-mat slab for night use. Real greens for targets and real sand in the bunkers. Or look at the Hinsdale Golf Club’s bandbox practice area which provides such a

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variety of shots you won’t miss using a driver. Bob Maibusch is rightly proud of this unique installation. There are other fine practice ranges throughout the Great Lakes Region but these are tops on their size classes.

A closing thought: If we are to keep bureaucratic regulations off our back, we must make them unnecessary. The way to do this is to stay ahead of the game through safe storage and application of chemicals, employee training and protection and a close look at our own operation as if we were an inspector who had never seen the place before and had not issued enough citations recently.

PREVIEW OF MGCSA TURF CONFERENCE

by Kerry Glader, Dan Hanson and Jim Nicol 1989 Conference & Education Committee

With the welcome frosts of October, our 1989 growing season will soon be coming to a halt. The 62nd MGCSA Annual Turf Conference and Business Meeting and Elections are little more that a month away.

The Conference Committee has put together a diverse agenda which we feel should be of interest to everyone.

As required by the Minnesota Department of Agriculture, the 1989 Pesticide Applicators' Training sessions will run all day on Wednesday, November 29. This will re-certify any currently licensed applicators who attend this session. Topics range from aquatic weeds and controls to "Employee Right to Know." Speakers at this session will include: Wayne Dally, Bill Smolley, Jim Cink, Ward Stienstra, Bob Mugaas, Don Henning and Steve Aunan of Fink Spray Systems.

The General Sessions on Thursday and Friday will provide a diverse list of topics which were derived by having polled our membership for suggestions. These suggestions provided us with speakers and topics which will be first time presentations to our Minnesota group.

All of this will take place on November 29 through December 1, 1989 at the Sheraton Northwest in Brooklyn Park, Minnesota. I know we will be welcomed warmly and that we will enjoy our return to the Sheraton. Enclosed you will find a hotel reservation postcard for your convenience. These reservations must be made directly with the Sheraton Northwest.

We will ask that you please use the advanced registration information that is also enclosed. Please get this in before the November 20, 1989 deadline and save yourself a lot of money, time and trouble when you arrive at the conference. MGCSA members will enjoy a $20.00

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We intend to make this the highlight of your season and we most certainly all deserve a break after this last season! See you at the Sheraton!

INDUSTRY NOTES

News From MGCSA Associate Members

CUSHMAN MOTOR COMPANY

Cushman Motor Company, Inc. of Minneapolis has two events to celebrate this fall. 1989 marks the 40th anniversary of continuous operation. Also, a new warehouse addition to their present sales and service location was recently completed. Jerry Commers, President, states that with the added space, Cushman has been able to enlarge the parts department and service area to better serve their customers.
Best of all, you'll be able to purchase a Cushman® Turf-Truckster® and a GA60 for about the same money that our competitor asks for their tractor-pulled reciprocating fairway aerator alone!*

The GA60 is the first in a new generation of 5th wheel implements for the Cushman Turf-Truckster, and it will be available for spring aeration. So, a little foresight today will put you miles ahead tomorrow.

When you see the performance — and the price — of the new Cushman® GA'60 Large Area Aerator, you'll be glad you waited for it. The GA60 has its own power source for more consistent quality. It features the coring heads of the proven Ryan "GA"30, delivering higher quality holes for greens-caliber aeration. It's unique fifth wheel configuration also gives you less soil compaction, a zero turning radius, and quick attachment and detachment. No mechanical alterations or gear replacements on tractors are required.

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- 1.3 acres per hour maximum production.
- Variable 2.5" x 3.5" to 5" coring pattern.
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- Operating controls mounted on Turf-Truckster to start, stop, and monitor GA60 engine.
- The aeration heads are powered by a separate power source — a Cushman 327 liquid cooled engine.
- Unit raises and lowers with Turf-Truckster hydraulics.
- Forward speed regulated by Turf-Truckster's exclusive ground speed governor.
- 5th wheel hitch can be quickly attached or detached on new and older Turf-Trucksters (some modifications may be required on older models).
- Weight: Unit weight is 2,020 lbs. (916.3 kg) with 400 lbs. (181.4 kg) carried on Turf-Truckster
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- Length: 101" (2,565 mm) (aerator alone) 172" (4,369 mm) (with 3-wheel Turf-Truckster)
- Width: 92" (2,337 mm)
- Height: 42" (1,067 mm)

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*Based on August 1989 price survey.

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### Applying for Class:

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- **$40.00 CLASS A**: Superintendent for more than three years.
- **$40.00 CLASS B**: Superintendent for less than three years but over one.
- **$40.00 CLASS BII**: Superintendent for less than one year or Asst. Supt.
- **$30.00 CLASS C**: Student Membership.
- **$30.00 CLASS D**: Technician Membership.
- **$40.00 CLASS E**: Affiliate Membership. Non-Superintendent involvement in the growth, management or production of turfgrass.
- **$125.00 CLASS F**: Associate Membership. Involved in golf course supplies and equipment.

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**EACH APPLICANT FOR MEMBERSHIP IN THE ASSOCIATION SHALL FURNISH SATISFACTORY EVIDENCE OF HIS/HER QUALIFICATIONS TO THE EXECUTIVE BOARD BY COMPLETING ALL ITEMS ON THE APPLICATION FORM INCLUDING A RECOMMENDATION OR ATTEST FROM ONE QUALIFIED MEMBER OF M.G.C.S.A. THE APPLICANT MUST MAIL THIS FORM AND THE APPROPRIATE YEARLYdues TO THE MEMBERSHIP CHAIRMAN AND INDICATE WHICH MONTH'S EXECUTIVE BOARD MEETING HE/SHE WOULD PREFER TO ATTEND FOR A PERSONAL INTERVIEW. THESE STEPS MUST BE COMPLETED WITHIN SIX MONTHS OF DATE OF APPLICATION OR THE APPLICATION WILL BE DESTROYED AND NO MONEYS REFUNDED. CLASS F APPLICANTS ARE EXEMPT FROM THE PERSONAL INTERVIEW.**

**THIS APPLICANT ATTESTED BY:**

**MGCSA CLASS**

**REPRESENTING (CLUB/FIRM NAME)**

**PHONE (___) ___ - ___**

**THE INDIVIDUAL ATTESTING THIS APPLICATION MUST BE WILLING TO LEND VERBAL SUPPORT TO THIS APPLICANT.**
I HEREBY APPLY FOR MEMBERSHIP IN THE MINNESOTA GOLF COURSE SUPERINTENDENTS' ASSOCIATION AND
PROMISE TO ABIDE BY ALL THE BYLAWS AND RULES OF THE ASSOCIATION.

APPLICANT'S SIGNATURE ___________________________ DATE ____________

AMOUNT ENCLOSED $_________ PAYABLE TO MINNESOTA GOLF COURSE SUPERINTENDENTS' ASSOCIATION.
ONE YEAR'S DUES MUST ACCOMPANY THIS APPLICATION. REFUNDS MADE IF APPLICANT IS NOT ACCEPTED.

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____ MARCH ______ MAY ______ AUGUST ______ NOVEMBER

THE MEMBERSHIP CHAIRMAN WILL INFORM APPLICANTS OF EXACT DATE, TIME AND LOCATION OF THE BOARD
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CHECK TO MAKE SURE SECTIONS A THROUGH E HAVE BEEN COMPLETED.

SEND TO:  Rick Fredericksen, CGCS
MGCSA Secretary
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DATE APPLICATION RECEIVED ________________________

DATE APPLICATION APPROVED ________________________ SIGNATURE ________________________

CHECK:  AMOUNT ___________ NUMBER ___________ DATE ________________________

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Monthly meetings held outside of the Twin Cities always give me time to reflect as I blow the carbon out of my car (legally, of course) on my way to a meeting which has already started. As was the case this last October, I was late getting to the 9:30 AM Board meeting and the little 30 mile detour of US highway 12 to the edge of Cosmos (Was that really Carl Sagan at the corner?) didn’t help matters any. Yet, as I watched the hay wagons and combines surrey down the road, I couldn’t help but be struck by the similarities of farming and golf. I’ve often told people who ask my occupation that I’m a farmer; I grow grass for a living. Like the farmers who were harvesting their crops and preparing for winter, I too must do the same. Most golfers have already taken their last swings this year, so my crop is almost fully picked. Now is the time to redo the fields, redesign a tee or two, and prepare for the next year. With winter around the corner, a well earned rest, next to a cozy fire, is on the horizon. The cows are heading for the barn and so are we!

As I drove along, avoiding road kill and farm equipment, I got to take a good look at the changing fall colors. Not too long ago these same trees were just breaking out in bud as warmth and new life returned to the cold north. How long ago we were worrying about winter kill, dead greens, and how we were going to explain the wrath of winter to our members, personally taking responsibility for the extremes and bitter cold that a Minnesota winter sent our way. As summer warmed and greened our turf, timely rains made us forget the drought of the previous year. Soon, the leaves aged, as did our turf, and another year, special in itself, became part of the history books. Maybe, we shouldn’t make such big mountains out of those little spring molehills. Seems that they’re kind of hard to remember now!

Nearing Willmar, my thoughts turned to the difficulties that outstate superintendents must face in running their operations. How easy it is for us in the Cities to pick up the phone and call for that special part or chemical that will again allow us to finish up our project. Labor, although expensive, is more readily available here and helpful advice is just down the road. Ingenuity and long hours by our outstate compatriots help counter their lack of readily available resources. We sometimes forget how easy we have it in the metro area.

Finally Willmar Country Club appeared, it’s beautifully manicured grounds begging for me to get my final swings in for the year. Just a little late for the Board meeting. A nice drive full of contemplative thinking and no speeding tickets.