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We have the simple philosophy at LasTec about what creates sales. Keep machines in the field working beyond customers expectations and sales take care of themselves. That's why every customer becomes our most important link to future success. Warranty claims are handled by one of the best turf dealer networks in the country. More importantly, we designed the Articulator with standard agricultural and industrial components. Inexpensive. Locally available. We even give you the standard industrial interchange numbers. That gives you purchasing options that save you money.

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the Bull Sheet

Official publication of the MIDWEST ASSOCIATION OF GOLF COURSE SUPERINTENDENTS.

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On Course with the President

There are a couple of things that should be addressed at this time. Here goes ...

Perhaps you recently called the Midwest telephone line, been told the office is temporarily closed, and referred to MAGCS Vice President Joel Purpur. Here's what is happening. The Executive Secretary of the Midwest, Joan Minnis, is having some difficulties in the latter stages of her pregnancy. Her doctor has advised her to rest as much as possible, even to the extent of virtually complete bed rest. These complications amount to a series of involuntary contractions at a much too early stage and there is a resultant danger to Joan and her unborn child. Her health and the health of the child are far too important to jeopardize with activities that can easily be handled by others at this time. So there has been a curtailment of her MAGCS secretarial activities and duties for the time being. If there are any MAGCS details, questions, problems, or issues of any kind — please call Don Cross, Joel, or myself and we shall try to be as efficient as Joan. She's doing just fine in the meantime and we all wish her the best as the due date nears. Take care, Joan!

Last month MAGCS Director Kerry Blatteau elegantly addressed the details and facets of the Midwest and it's governing body. He mentioned the many areas to which the Midwest is committed and the active prominence of our association. Well, the association is equal to the sum of it's parts and the strongest parts of the MAGCS are it's members. Soon we hope to be drawing from that very strength as the Nominating Committee convenes to consider the potential leadership individuals and personality of the Midwest of the near future. The Nominating Committee of the MAGCS will be convening soon to tackle the

Let the nominations committee know if you are interested in serving as an Association Director and aspire to participate.

formidable task of filling the upcoming Board of Director vacancies. The Committee will be going through the directory and considering the names of MAGCS members whom might be interested in accepting the challenge of helping to serve and guide this fine organization. It is a fulfilling and rewarding opportunity to become an integral and active participant in the "Midwest". Yes, it involves a little bit of work and some time too; but we as superintendents have never been afraid of taking care of the business at hand.

We urge you to consider accepting the challenge of the MAGCS Board. The elected position of Director of the MAGCS is a fine professional accomplishment and affords an individual a tremendous opportunity to gain leadership experience. And it can be a lot of fun too. Let the nominations committee know if you are interested in serving as an Association Director and aspire to participate. MAGCS Past President Tim Kelly will be the nominations committee chairman and he will be working hard to develop a slate of candidates. It's for the future of the Association and it's for the future of **your** Association. We hope you are interested ...

And finally — Terry Petric died recently. He suffered badly and bravely for far too long. I have never met another person who took so much pride in being a Golf Course Superintendent. Rest in Peace, Terry.

ATF

Director's Column

by Kevin Czerkies, Sportsman Golf Club

As I write this letter, I hope to find that everyone is having a good season inspite of the very dry weather, .37" of rain for the month of May to be exact. Well, I am positive as you are reading this in July you are enjoying a **normal** month of weather.

I would like to thank everyone who pre-registered and paid for this month's meeting at Orchard Valley and the months prior. This system works very well in setting up and operating our monthly meetings. The policy, adopted by the M.A.G.C.S., is printed at the end of my directors column. Don't forget this is your association, if you have an idea that will improve this system please give me a call or drop me a letter. Your thoughts are important to the success of this program.

There is a great line up of golf courses all year for our events and good courses to come with Tamarack (see insert in this month's **Bull Sheet**), Seven Bridges, and Oak Brook Hills. We still have openings for the 1995 golf line up. If you are interested in hosting a M.A.G.C.S. monthly meeting please call me as soon as possible and sign up.

I would like to use this column as another opportunity to thank our sponsors for helping defray the cost to our members at the monthly meetings. Their response has been tremendous so please utilize their services whenever possible. The list to date includes:

- | | |
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Lastly, if you have not already reserved your Kane County Cougars tickets for August 13, please check with me for extra tickets that are available. Thank you for electing me a director of our association. I will serve my term with enthusiasm and commitment. So until I see you at Tamarack in July, keep it down the middle.

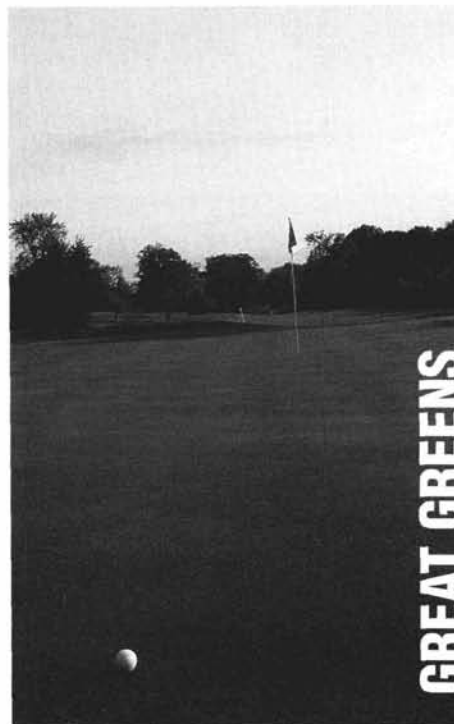
Mechanic's Corner

Have you ever come across a bolt or hex head screw in a tight position where the only tool that would work was a socket? Then, to make matters worse, the hex head was stripped or the corners were rounded so the socket slipped.

Try putting a layer or two (depending on the size of the head) of aluminum foil over the head of the bolt. Lightly tap the socket over the foil and bolt head. When the socket bottoms out over the head keep your fingers crossed and turn slowly. Replace screw before re-tightening.

**Gregory J. Riley, Mechanic
Huron Breeze Golf & C.C.**

Credit: Turf Times, 6/94



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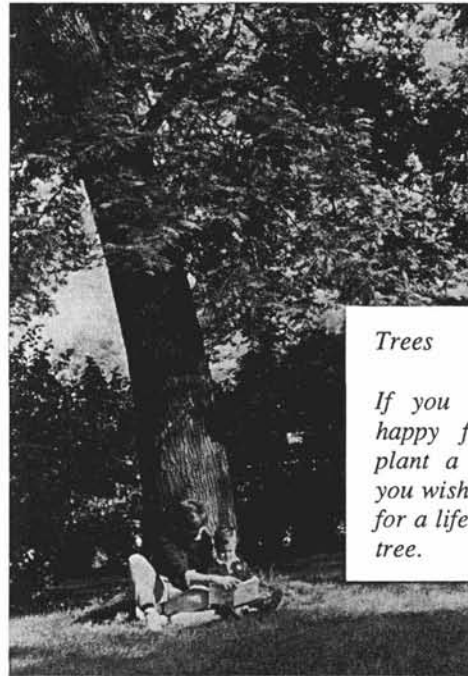
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UNIVERSITY STUDY COMPARISON OF TURFGRASS CULTIVATION METHODS

SCALE OF DEGREES: 1= NO EFFECT 5 = MOST EFFECTIVE

AERIFIER TYPE	PROCEDURE	DEPTH OF PENETRATION	DEGREE OF SOIL LOOSENING	DEGREE OF SOIL BROUGHT TO SURFACE
VERTI-DRAIN	Hollow tines	10-12"	4-5	2-4
VERTI-DRAIN	Solid tines	12-16"	4-5	1
DEEP DRILL AEROFIER	Screw device	5-10"	1	2
TORO HYDRO-JET	High pressure water injection	4-20"	2-3	1
COMMON CORE AERATOR	Vertically operated tines	3-5"	2	3-5
SPIKER- Pull type or Motorized	Knife-like blades	¼-2"	1	1

FACTS EXTRACTED FROM GOLF COURSE MANAGEMENT MAGAZINE, AUGUST ISSUE, 1990. RESEARCH BY DR. ROBERT CARROW, UNIVERSITY OF GEORGIA.

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Editor's comment: The following letter from the Audubon Society of New York is the reply to the "The Wall Street Journal" article that appeared in the May 2 edition.

Editor
Wall Street Journal
200 Liberty Street
New York, New York 10281

To The Editor:

The article, "Golf Courses Are Denounced as Health Hazards," which appeared in the May 2, 1994 issue was biased, one-sided, and lacking in fact. It was obvious that the writer of the article had no intention of writing an objective piece. Although it is true that golf courses do take up space, and they do use water and chemicals, the intent of the article is to depict most golf courses as being just a tad better than a hazardous-waste site. Nothing could be further from the truth.

For the past three years, the Audubon Society of New York State has been working with golf courses in an effort to increase wildlife habitat, reducing water consumption, and minimize chemical use. Because over 1,000 golf courses are currently participating in our program, The Audubon Cooperative Sanctuary System, we know that there are golf course managers who care as much about the environment and wildlife as any "traditional" environmentalist.

Although over-use of chemicals is a common criticism leveled at golf courses, the quantities cited are frequently exaggerated. As an example of the effects of chemical use, one event is repeatedly offered which occurred years ago prior to the raising of everyone's environmental consciousness. Such events provide satisfying fodder for many writers looking for sensational "evidence," even if it is old news. What is more important is whether we learned from that event? I believe we have. Most of the golf course superintendents we work with have made great strides in minimizing the use of chemicals and water as both an economic consideration as well as an environmental decision. Most have expressed a commitment to making better and more sound environmental land management decisions based on an appreciation for the land and wildlife with which they work.

When compared to many other kinds of land development, golf courses are one of only a few types of "economic development" that results in an average of 150 acres of open space, trees, water, plants, and wildlife habitat on which people can relax. Many golf courses harbor rare and endangered species. Many of the people who manage golf courses have been involved in restoring native vegetation, establishing fields of wildflowers, designing nature trails on or near the golf course, and offering environmental education programs for students and the general public.

There is no question that everyone of us — golf course managers, homeowners, farmers, newspaper reporters, and those who work for environmental organizations — can do a better job of taking care of the environment. However, the goals that we set to improve our environmental efforts should be based on fact and reason, not on bias and fiction.

Sincerely yours,
Ronald G. Dodson, President



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Number of Golfers in the U.S. / 1988-1993							
Golfer Segment	Golfers (millions)						Compound Annual Growth 1988-93
	1988	1989	1990	1991	1992	1993	
Core	11.0	11.3	11.8	11.5	11.6	11.3	+0.5%
Occasional	10.5	11.4	13.9	11.5	11.5	11.3	+1.5%
Juniors	1.5	1.5	2.1	1.8	1.7	1.9	+4.8%
Total	23.0	24.2	27.8	24.8	24.8	24.5	+1.3%

Margin of error: ± 400,000 golfers

Rounds Played in the U.S. / 1988-1993							
Golfer Segment	Rounds (millions)						Compound Annual Growth 1988-93
	1988	1989	1990	1991	1992	1993	
Core	430.4	410.5	437.2	418.4	449.9	438.5	+0.4%
Occasional	34.4	37.1	42.7	36.7	36.7	36.3	+1.1%
Juniors	19.6	21.4	21.7	23.5	18.8	23.8	+4.0%
Total	484.4	469.0	501.6	478.6	505.4	498.6	+0.6%

Margin of error: ± 20 million rounds
 Source: Golf Participation in the U.S. / 1994 Edition

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Terry's Eulogy

People in the Fox Valley have only known Terry Petric for just a little over 5 years. Looking at Terry Petric's character; these traits come shining through. Wouldn't you agree that his ...

- Sense of humor
- Calm demeanor
- His positive attitude

... come right to mind for all of us?

I too, have known Terry Petric for a little over 5 years. When we first met, his 22 year old looks for his 34 year old age were impressive. We met in California when Terry received a scholarship from the Golf Course Superintendent's Association of America. Imagine, here was a 34 year old man, married, 2 children; from Minnesota (AY), starting over. Just finishing college, beginning a new career, ready to become a golf course superintendent.

That was when we met, now how we met. You know what they say about every successful man — there is a woman. Fortunately for all of us, Katie was out there in California with him. I had approached the group of 5 national scholarship winners and blurted out, "Anyone looking for a job?" They all stood there, shyly looking at one another. No one said a word. That was when Katie poked Terry so hard he stepped forward and said, "I guess I will be when I finish school this spring." We met, and the rest is history. Terry became our loyal assistant for the next 4 years at St. Charles Country Club. Terry became head superintendent at Spartan Meadows. He lived his dream.

Sense of Humor

Terry had the ability to laugh at himself and he could help others laugh, too. Terry's left eye was a prosthesis. He lost it to cancer almost 7 years ago. Can't you see him laying on the gurney, "Now doc, when you put me under I'm not going to be able to remind you which eye to take. How about putting an 'X' over this one. I'd sure hate to wake up and find out you made a mistake." While playing golf, Terry's favorite line to distract the opponent, "Let's play the next hole with one eye closed. I'll bet I can beat you!"

Calm Demeanor

Laid back — great fishing stories. This is not to be confused with sluffing off or laziness; rather a self-assured approach to getting things done properly. Terry spoke often in terms: "Let's get it done right the first time. We're only going to do this once." Or — "Calm down, Pete. It will still be there tomorrow." So there you have it, a great sense of humor, calm demeanor, competitive, athletic.

A Great Attitude

Put it all together, along with being a great family man and friend, and you probably realize that Terry's attitude was always on the plus side. I really don't think Terry bothered anyone with his problems. His greatest asset was his ability to help others better understand what they were doing, how best to do it, and then move on to the next thing. My relationship with Terry went full circle, the student became the teacher. I've learned a lot from my friend Terry. I am so fortunate to have the opportunity to tell you so today!

Thank You.

Peter Leuzinger



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Answers to Math Quiz

by David Wehner

Last month, the **Bull Sheet** presented a math quiz for you to try. Here are the explanations of how the problems are worked and the answers to the problems. Step-by-step solutions to these types of problems (numbers 1-5) are illustrated in the GCSAA booklet "The Mathematics of Turfgrass Management." Solutions to the spray calibration problems are illustrated in the pesticide training manuals for the State of Illinois. This quiz was worth 50 points. Give yourself partial credit on a problem if you set the problem up right, but there was a math mistake. Also give yourself partial credit if the problem involved two calculations, and you got one of the calculations correct. Point values for each part of the problem are indicated within parenthesis e.g. (3) means that the calculation was worth three points. If you scored 45 or higher, you got an A; 40-44 = B; 35-39 = C; 30-34 = D; below 30 = F. The abbreviation M = 1000 square feet, A = acres, lb = pounds, oz = ounces, gal = gallons, and sq ft = square feet.

1. Calculate how much N is needed (3), then calculate the amount of fertilizer to buy (2):

$$2.5 A \times \frac{43.56 M}{A} \times \frac{0.75 \text{ lb N}}{M} = 81.7 \text{ lb N}$$

$$81.7 \text{ lb N} \times \frac{1 \text{ lb fert}}{0.16 \text{ lb N}} = 510 \text{ lb fertilizer needed}$$

2. Calculate how much of the SCU is applied per M (3), then calculate how much elemental K is applied (4). K₂O is 83% elemental K.

$$1.5 \text{ lb N} \times \frac{1 \text{ lb of fert}}{0.22 \text{ lb N}} = 6.8 \text{ lb of fertilizer per M}$$

$$6.8 \text{ lb fert} \times \frac{0.1 \text{ lb K}_2\text{O}}{\text{lb fert}} \times \frac{0.83 \text{ lb K}}{\text{lb K}_2\text{O}} = 0.56 \text{ lb elemental K per M}$$

3. Calculate how many acres are sprayed with each tank (3), then calculate how much herbicide is needed (3).

$$200 \text{ gal} \times \frac{1 A}{35 \text{ gal}} = 5.71 \text{ per tank} = 5.71 \text{ lb of 2,4-D needed per tank}$$

$$5.71 \text{ lb 2,4-D} \times \frac{1 \text{ gal herbicide}}{4 \text{ lb 2,4-D}} = 1.43 \text{ gal of 2,4-D added to tank}$$

4. Calculate how many acre inches of water are available (4), subtract out water used on the greens and tees (2), then calculate how much is available for fairways (4).

$$\frac{275,000 \text{ cubic ft} \times 7.48 \text{ gal per cubic ft}}{27,154 \text{ gal per acre inch}} = 75.75 \text{ acre inches available}$$

$$5 A \text{ greens \& tees} \times 4 \text{ acre inches (June 1-28)} = 20 \text{ acre inches on greens \& tees}$$

$$55.75 \text{ acre inches left for fairways}$$

$$\frac{55.75 \text{ acre inches}}{20 A} = 2.78 \text{ inches for fairways or 0.69 per wk}$$

(continued page 13)

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