

THE BULL SHEET, official publication of THE MIDWEST ASSOCIATION OF GOLF COURSE SUPERINTENDENTS.

DICK TREVARTHAN, Editor
122 Evergreen Drive
Frankfort, Illinois 60423

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Honorary and Complimentary Memberships

If you know of someone who is doing outstanding work in our field or related fields entitled to special recognition, or someone who is worthy of a complimentary membership, please contact Howard Baerwald, Superintendent of La Grange Country Club, 312 - FL 4-0537 or Al Johnson, O'Hare Golf Course Superintendent, 312 - 827-5131.

We will vote on all Honorary and Complimentary Memberships at the March MAGCS meeting.

Dick



The President's Message

The Midwest Association is about to begin a new year. It has a new board, a new President and many new ideas. The new board met and the President formed the various committees.

After a long discussion it was felt that many new goals should be sought after. That the Association should study how it can do more for its members, and in return receive more from its members.

Out of the search for new goals for the MAGCS come the formation of new committees. (Scholarship, Certification, Honorary members, Research and Purpose.)

Scholarship is the one way we can help future superintendents to be well prepared. With the proper educational and practical experience background, he will have the tools to be a successful superintendent and a credit to the profession. Many different scholarships have been set up for deserving individuals. The GCSAA tells us there are now twice as many applicants as scholarships given out. Therefore, a committee will be formed to study possible ways the MAGCS can help out.

Certification is rapidly upon us. Some people call it perfection, some call it protection, some call it elevation of the profession and some place little value on it. Whatever it may be, we should study all aspects and find the valid facts. If it comes, we should be prepared.

Honorary members should be so honored. I am sure many are, but it should be the duty of this committee to seek and find people worthy of this title.

Ways of helping to conduct research so as to benefit our members should be conducted. A big study is needed to find new trends in turf. Ways we can help universities or wherever research is being conducted.

The purpose of any organization is set forth in its by-laws, as well as the code of ethics. One of our purposes should be to look into the future. It must be determined what we are organized for and where we are going in the future.

Many words can be written, but without the help of individual, responsible and interested superintendents, none of them will come true.

Dick Trevarthan
President

Overhead Bulk Storage Bins

By Ed Devinger

In searching for new ideas and ways to make the job of fertilizing more convenient and less time consuming, I questioned the men who are now using them. These Superintendents are John Jackman (Medinah C. C.), Amos Lapp (St. Andrews C. C.), and George Dallman (Cog Hill G. C.).

The bin is made of plywood and can be constructed to any desired size. It stands 20 ft. high, the clearance is 8 ft. from the bottom of the bin. Each section is 4 ft. wide and will hold 250 cubic feet of fertilizer. The reason that it is stated this way is due to the wide variance in fertilizer density. (i.e. chemical fertilizer will average about 55 pounds per cubic foot. Sludge is only 35 pounds per cubic foot.)

The total cost will vary according to size and the price of lumber, but a 5 section bin or 1250 cubic feet will cost about \$2500. Amos Lapp said that his bin paid for itself in 2 years.

The life of the bin is expected to be about 10 years. This can be prolonged with proper care.

John, Amos, and George spoke very highly of the operation and stated that they would never go back to the bag by bag fertilization method. They agree that it's great not to have to handle it until they are ready to put it on.

Here are some topics concerning the bin and their comments:

(1) Mobility? —

All agreed that it was excellent when the bin was empty.

(2) Is it practical —

John: It should be bigger. (His will hold 20 tons of chemical fertilizer but only 13 tons of Mil.)

George: I want one that will hold 24 tons of Mil. (6 sec.)

Amos: The Golf Course must be 18 holes or more to make the bin pay for itself.

(3) Loading & Unloading —

John: It must have a loading pipe on each end. It takes only 30 seconds to load the spreader with 1200 lbs. of fertilizer.

Amos: I have had no problems.

George: The bin should be lower to the ground, and the legs wider apart.

(4) Size —

John & Amos: It must be large enough to hold 20 tons of Milorganite.

George: Should be large enough to hold 21 or 22 tons of Milorganite.

(5) Disadvantages —

John: Chemical fertilizer has a slight tendency to set up, but not a problem.

Amos: None, the distance from bins to all fairways is no problem.

George: Absolutely none.

(6) Improvements —

John: Should be weather proofed better.

George: A round, upright bin may be better, silo-type.

(7) Savings —

Amos: It saves me at least \$10 per ton on my fertilizer and its application.

George: I'd say it saves me \$15 per ton.

(8) Comments —

John: I can fertilize all the fairways that are to be watered that evening. I can do the fertilizing myself to insure better application. "I like it. I feel it saves us quite a bit in labor and money. It would be pretty hard to go back to the old method. I don't even remember how we used to do it."

Amos: I'm very happy with it. I can save \$10 a ton plus convenience and time. I wouldn't have it any other way. I think every superintendent should investigate the possibility of having these bins either by purchase or lease. I saw it first at Medinah. I ordered one and called George and he looked at it and ordered one. When we can get our work done in a hurry, just as efficiently, it is a great asset.

George: It is very handy. One man can do 2-3 acres with Milorganite in half an hour. Also, I fertilize more often, putting less on each time.

Each superintendent extends an open invitation, to anyone who is interested, to stop by and take a look at it. Also, anyone wishing further information, can contact me.

RAY DAVIS RETIRES

Ray Davis has retired from the industry after a lifetime of service to golf courses in the Chicago District.

Ray was a native of southern Indiana, and over the many years of active service retained his dry Indiana humor that has won him many friends.

During the last 46 years he has served Twin Orchard, Medinah Country Club, North Shore Country Club and Arlington Park Country Club. Ray put on excellent dances as chairman of the entertainment committee for four years and further served the Midwest as President for two terms with great distinction.

He is the father of five children and the grandfather of five grandchildren.

Ray and Mrs. Davis have purchased a home in North Port Charlotte, Florida, and will be in that area from now on. Our finest wishes go with Mr. and Mrs. Davis.

DONALD J. MASKE JOINS TUCO

Donald J. Maske has been named sales representative for TUCO Agricultural Chemical Sales, Division of The Upjohn Company. He reports to H. Hoover Thomas, District Sales Manager, and is responsible for sales in the Midwestern District with headquarters in Chicago.

Don received a B.S. degree in chemistry from Lewis College, Lockport, Illinois. He also completed the two year turf management course at Pennsylvania State University. Don has been active in the turf industry for nine years having worked for Walter Fuchs at Glen Eagles Country Club and Warren Bidwell at Olympia Fields and Philadelphia Country Clubs. Before joining TUCO, Don held the position of golf course superintendent at Cold Spring Country Club, Cold Spring Harbor, New York.

Attention — Golf Course Superintendents:

Registration of DDT by the USDA for additional uses is cancelled effective December 20, 1969. The Secretary of Agriculture stated November 20 that registration will be cancelled for use on Shade trees including the control of Dutch Elm Disease. DDT will also be cancelled for use in and around the home and uses in marshes and wet lands. This is only the first step in the United States government's plan to stop the use of this pesticide by the end of next year.

The Secretary of Agriculture has also revealed that the government plans to take action by March 1, 1970, on other pesticides which are now on the market including Dieldrin, Heptachlor and Aldrin and other persistent pesticides. It is possible that the registration of these pesticides may also be cancelled.

Since many garden centers and hardware stores are now placing orders for their 1970 supply, it would be wise for you to consider what effect publicity now appearing in many newspapers, magazines, etc. will have on sales in 1970, so that you will not find yourself overstocked by the end of the coming year.

I would also advise you to check with company representatives to see what their policy will be concerning return of your possible supply due to cancellation of these products.

Mercuries are also being discussed as a possible group that will be removed from sales. This would have a big effect on preventing golf green diseases.

We will keep you posted regarding further development in the government's action against many of these pesticides that we need so badly.

Are the nurserymen's associations, golf course superintendents and others who depend so heavily upon these materials willing to sit by and allow many of these chemicals to be removed from the market??? It is time that you start acting because many newspapers and magazines are carrying "scare" articles and not factual information. By all means write your Congressman and let him know that some of his constituents have an interest in "the other side" of this question.

In government, or politics, as in so many other aspects of our every-day life, the squeaky wheel gets the grease, and up til now the conservationists and organic gardeners have been doing all the squeaking while the farmers, nurserymen and others who depend so heavily upon modern disease and insect control methods have remained silent. Some speaking up needs to be done.

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PUBLICATIONS FOR ALL "TURF PEOPLE"

Publication	Address	Issues/ Year	Yearly Cost*	Description
Golfdom	Golfdom Circulation Dept. 235 E. 45th Street New York, New York 10017	12	\$ 3**	Golf business to include the professional golfer and golf course superintendents.
The Golf Superintendent	The Golf Superintendent 3158 Des Plaines Avenue Des Plaines, Illinois 60018	10	\$ 5	Golf course management and turfgrass science.
Grounds Maintenance	Intertec Publishing Corp. 1014 Wyandotte Street Kansas City, Missouri 64105	12	\$ 12**	Landscape Design, construction and maintenance.
Southern Golf Course Operations	Turf-Grass Publications, Inc. P.O. Box 51088 Jacksonville Beach, Fla. 32250	4	\$ 3	Emphasis on bermudas and other warm season grasses.
Turf Grass Times	Turf-Grass Publications, Inc. P.O. Box 51088 Jacksonville Beach, Fla. 32250	8	\$ 5	General turf grass industry.
USGA Green Section Record	United States Golf Assn. 40 East 38th Street New York, New York 10016	6	\$ 2	Golf course construction, maintenance and management.
Weed, Trees & Turf	The Harvest Publishing Co. 9800 Detroit Avenue Cleveland, Ohio 44102 Attention: Circulation Dept.	12	\$ 7**	Methods, chemicals and equipment for vegetation maintenance and control.

* Discounts are usually allowed for subscriptions totaling more than one year.

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TURF SCIENCE

The American Society of Agronomy, 667 South Segoe Road, Madison, Wisconsin 53711, has published a book entitled "Turf Science." This turfgrass book contains 28 chapters, over 700 pages, and was written by 43 authors and co-authors, all experts in their respective fields of turf endeavor. Turfgrass Science covers a wide range in turfgrass culture and contains practical and reference material that will be invaluable to all personnel interested in growing turf. The book will retail for \$10.00 to members of the Society and for \$12.50 to non-members.

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THE CASE OF THE DISGRUNTLED GREENSKEEPER

Brannum was a supervisor for greenskeepers at a country club. When one of the workers refused to do his job properly, Brannum fired him. That afternoon, the greenskeeper returned to the golf course and shot Brannum five times.

Brannum filed for workmen's compensation benefits. He claimed his injuries occurred on the job and that he should, therefore, be compensated.

The employer argued that Brannum's injuries did not occur as a result of his work.

The court held there was insufficient evidence that Brannum's injury arose out of and in the course of employment, consistent with the legal definition of that phrase in the Kansas Workmen's Compensation Act. The court denied benefits.

Brannum appealed to the Kansas Supreme Court. (**Brannum vs Spring Lakes Country Club, Inc.**) The court ruled there was sufficient evidence that Brannum's injuries occurred in the course of his employment and that his work caused the injuries. Benefits granted.

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NOMINEES FOR OFFICERS AND DIRECTORS OF THE GCSAA.

For President —

Norm Kramer — Benton Harbor, Mich.

For Vice-President —

Keith Nisbet — Ontario, Canada

Dick Blake — Boylston, Mass.

For Directors — 3 to be elected

1. Lynn T. Kellogg — New York
2. Richard Malpass — Oregon
3. Palmar Maples — North Carolina
4. Jerold Murphy — Minnesota
5. Clifford Wagoner — California

THE MAGCS GOLF TEAM FOR THE GCSAA GOLF TOURNAMENT IN HOUSTON

1. Pete Voykin
2. Bill Hargrave
3. Harold Michaels
4. Tim Miles

EXCERPTS FROM DR. ALEXANDER TALKS AT THE JANUARY MEETING OF THE MAGCS

February, March 1969 open cold months causing desiccation.

April, May 1969, overcast, cold, poor growing months. Use of Milorganite to promote growth.

June, 1969, Explosion of earlier too much N in the Spring. Bad timing with the weather.

C-15 bent grass came through the best. June - September. Leaf spot the worst disease. Disease worst here, bad drainage was present.

12-15 inches of rain in July. High night temperature, but no Pythium.

False Dollar Spot in Ohio, Indiana, Eastern Michigan. Should be watched.

Spots as big as a dime, the only control is Potassium sulfate 10 lbs./1,000, watered in, follow by 4 ozs. of Daconil 2787 the next day.

Overseed fairways early in August to get ahead of Poa annua.

New fungicides Koban and Poa-san will be released at Houston. (Seed head suppression) Insecticides in 1969, two states are trying band 2,4-D, 2-4-5-T and 2,4,5-TP. If this catches on we will lose a good golf course product. Reasons for banning — possible birth defects.

The use of gypsum to create a chemical reaction to flocculate the soil. Make applications of 1 ton per acre for 5 years.

Dr. Alexander says in summary that we will have more play in 1970 and 1971. We need to update our equipment, and mechanize our whole operation.

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CERTAIN-TEED BADGER

A unique and vastly improved method of installing pipe and conduit is now available through Certain-teed Badger, newly formed subsidiary of Certain-teed Products Corporation. The agreement involved a multi-million-dollar purchase by Certain-teed of Badger equipment. Announcement was made jointly today by Harold McNabb, executive vice president of Certain-teed and general manager of Certain-teed's Piping & Plastics Industries Division, and by Stanley Blackstone, chairman of the board of Hudswell Badger, Ltd. of Leeds, England. Certain-teed now becomes licensee for the Badger System in the United States. Certain-teed Badger becomes a part of Certain-teed's Piping & Plastics Industries Division.

The Badger Trenchless system was originally developed in England, and is presently being used successfully in England, France, Germany and Canada. Hudswell Badger has already used this method in the United States on a recent water distribution system, where 100,000 feet of pipe were installed in two days.

Basically, the Badger equipment forms tunnels through the ground and the equipment pulls in or feeds down long strings of pipe into the pre-formed tunnel, with very little disturbance of the ground at the surface.

"The most dramatic advantage of the Certain-teed Badger System," Mr. McNabb commented, "is the drastic reduction in time of installation." He noted that Certain-teed, throughout its 66-year history, has pioneered in providing new products and processes for the building and construction industry. "This in-

stallation system becomes available at a most opportune time, when our country's needs require many miles of pipeline for water and sewer systems, for gas and oil, land drainage, as well as for communications conduit," he said.

Additional features of the Certain-teed Badger System were cited by Stan Price, vice-president of marketing for the Piping & Plastics Industries Division, who will become president of Certain-teed Badger. "The Certain-teed Badger System can lay pipe to exact grade to depths of up to 9 feet, with diameters up to 20 inches. In addition to speeding up pipe installations under normal conditions, this means that pipe can now be laid in conditions which otherwise could often render the project prohibitive. This system will be made available to contractors, through authorized outlets."

Headquarters of Certain-teed Badger are located at 540 Pennsylvania Avenue, Fort Washington, Pennsylvania 19034.

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FUNDAMENTALS OF RODENT CONTROL

by Stanley Rachesky
Entomologist, University of Illinois

Rodent proofing your buildings is one of the most successful ways of eliminating rodents from entering the premises and causing you a problem at this time of the year. If done properly and thoroughly it completely eliminates the need for using traps or rodenticides.

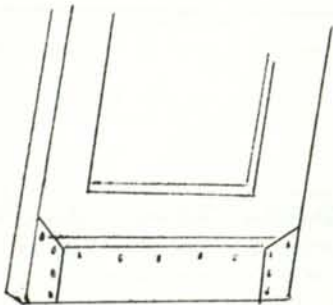
The upper teeth of a rat or mouse curve inward therefore it is difficult, if not impossible, for them to gnaw into a flat, hard surface. As a starting point they seek a gnawing edge.

Entry by rats and mice may be the result of burrowing in the ground beneath foundations and floors. They may climb and enter the upper reaches of structures, or they may go through doors, windows and other openings. Rodent proofing, to be effective, must take into consideration not only the habits of rats and mice but human error as well.

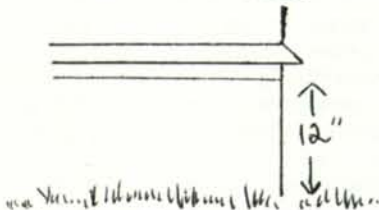
There are several fundamentals of rodent proofing which should be done:

1. All openings more than $\frac{1}{2}$ inch in diameter should be closed to prevent access by rats. Because mice can enter a building through holes as small as $\frac{1}{4}$ inch, they too should be sealed.

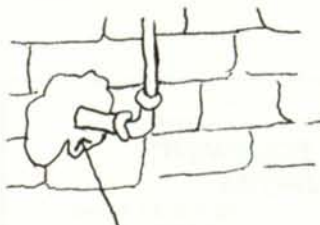
2. Cover all edges (door sides, window sash, etc.) subject to gnawings with sheet metal or hardware cloth.



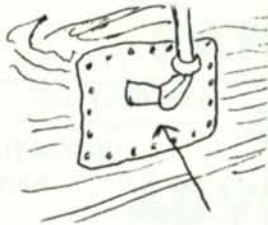
3. Concrete foundations should be at least 12 inches above the ground level to discourage the gnawing of holes. This practice is especially important in business and industrial areas.



4. Close holes around pipes through masonry by forcing heavy hardware cloth into the opening, then fill with concrete. Where pipes enter wood, fit sheet metal around pipe.

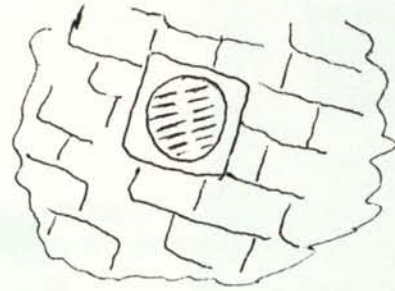


concrete



sheet metal

5. Keep floor drains tightly covered to stop entry from sewers.



6. Last, but not least, make sure all doors close securely.

Rodent proofing involves using construction materials to prevent these little animals from getting into the building.

VANDALISM

VANDALISM CAN BE PERSONALLY DANGEROUS.

It can be anything from minor destruction to major destruction and even death. Recently a Golf Course Superintendent was killed by a group of vandals.

Herman Miller of Champaign, Illinois, was assaulted by vandals and they beat him to death with golf clubs on his golf course. I knew Herman for several years and when I heard of this tragedy it made me think how careless I have been when checking out problems on the golf course. Most golf course superintendents will go out and check when he hears of vandals being on his course, thinking it may be members' kids or somebody just out for a walk; and not realizing they could turn on him.

With the morals of some people, and the use of drugs among some, I feel that vandalism on golf courses will get worse. We should be prepared to handle these problems. Know your local police and how to get in touch with them.

I urge you to use extreme caution when checking out what you may think is a routine problem. Call the police or get help **before** going out. You can rebuild a green or buy flags, flag poles, and tee markers but your family would have a hard time replacing you.

Bill Brickell
President Indiana GCSA

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SPECIAL THANKS

The Fall Dinner Dance of the Midwest Association of Golf Course Superintendents now being just a memory, we would like to express special thanks to the following contributors whose door prizes helped to make the dance an enjoyable evening for all.

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