

Weed eating grass carp to be permitted in Illinois waters

A sterile form of the grass carp may now be used in Illinois for controlling aquatic vegetation. Based on the findings of a cooperative research study between the Department of Conservation and the Illinois Natural History Survey, regulations were recently changed to give lake and pond managers an alternative to the use of aquatic herbicides, according to Jim Allen, of DOC's Division of Fisheries.

The grass carp, or white amur, is a native of Asia and was imported into the United States in 1963. It has been highly controversial among state natural resource agencies due to the fear of a population explosion and resultant impacts to bottomland lakes and wetlands adjacent to rivers and streams. The sterile grass carp, termed "triploid" due to

a triple number of cell chromosomes, offers less risk to the environment.

The research showed that the "triploid" consumes vegetation in a manner similar to the fertile fish. However, because some aquatic "weeds" are preferred over others, and other variables, including the location of the water area in the state, the percent of vegetative cover, water depth and amount of control desired, there is no standard stocking recommendation. Requests for "triploid" stocking rates will be referred by the Division of Fisheries to district biologists. Lake and pond owners are encouraged to seek this professional advice. If too many fish are stocked, all the vegetation could be eliminated and escape cover, needed by young game fish for survival, may not be available.

A list of fish dealers will be made

available to persons requesting stocking information. A special, no cost permit is required of anyone who imports "triploids" from out of state. The Division of Fisheries will check shipments to determine whether the grass carp are sterile. Persons who buy fish from a local dealer are required to have a bill of sale in their possession while the fish are being transported.

The best time for stocking fish is late spring, after vegetation has become established. Effective control should not be expected the first year; two or more years are required for best results. For maintenance, additional fish will be needed in about seven years.

For further information write: Department of Conservation, Division of Fishers, 524 South Second Street, Springfield, IL 62706.

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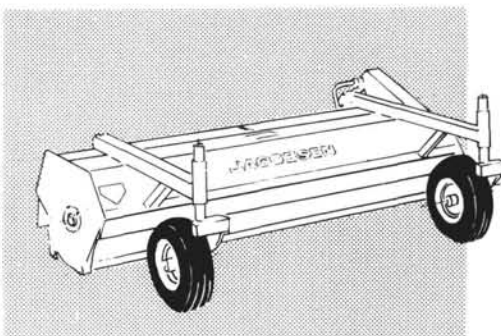
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Upcoming Events — Mark Your Calendar

- June 9** — MAGCS monthly meeting at Crystal Lake C.C.
- July 21** — MAGCS monthly meeting at Palatine Hills
- August 7** — U of I Turfgrass Field Day at Urbana
- August 18** — MAGCS monthly meeting, Bartlett Hills
- September 8** — MAGCS monthly meeting at Deer Creek G.C.
- October 6** — MAGCS monthly meeting at Wilmette C.C.
- November**
- December 9-11** — North Central Turfgrass Exposition

Glendale Golf Course in Bloomingdale, IL is looking for an assistant superintendent. The person needs to have some mechanical ability for this full time position. Will train. Call (312) 529-6232 and ask for George Paul.

The Illinois Turfgrass Foundation is making a drive to get new members. It's function provides for research funding for Illinois turfgrass science through the University of Illinois and Southern Illinois University, publications and distribution of education materials, holds a research field day on it's turf plots, and has an annual conference and trade show. Annual dues are \$65.00. It is hard to believe that there are clubs in the Chicago area that are not members. But there are many such clubs. To join, mail a check to: Illinois Turfgrass Foundation, Inc., 435 N. Michigan Ave., Suite 1717, Chicago, IL 60611 or call for more information at (312) 644-0828. Clip out the form below and join today.

A very speedy recovery is wished for Jerry Adank after the serious back operation he had on May 13th. Get well cards may be sent to: 1454 Bear Grass Court, Valparaiso, IN 46383.

Do you have an assistant ready for a superintendent's job? Call Steve Davenport at (217) 935-8486 before 5 a.m. and after 9 p.m. (This fellow has to be a farmer!) This position is at the Clinton C.C. and is open July 1st.

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Olympia Fields meeting had a good turn out with 150 for dinner and just a few under that for golf. Brian Chalifoux had the course looking great for so early in the season. After dinner, Brian was our educational speaker on all of the improvements to the fairways and greens that he and his crew had done in the past 2 years.

Dave Behrman in his "President's Message" mentioned that we have had another year without spring. To add to that it makes it very hard to grow any grass in the rough areas where you have so much cart traffic. For the past two years now we have had the same problem and it is really starting to show with all of the wear and tear. You can seed, spike and aerify all you want, but if "Mother Nature" doesn't come up with some rain the grass won't grow. But now on the other side of the coin, if one had to get some construction projects done from last fall — well, then it is another story. For then you really can't beat this weather. And with all of the fall rains, I'm sure everyone had projects to catch up on or finish.



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Annual membership dues of \$65.00 are on a calendar year basis. A full year's dues must be sent with this application.

Pros and Cons of Frequent Sand Topdressing

by William B. Davis, Environmental Horticulturist
Cooperative Extension, University of CA

Excellent putting greens don't just happen. They are the product of a professional turfgrass manager. Each of us has played on greens which, at the time, were near perfect. Some were constructed of pure sand, some of pure clay. Some were solid stands of Penncross or Seaside, others pure **Poa**. Some are aerated frequently, some only once a year. Some are played every day, and others are open less than 6 months a year. Some are used by few players each day, while others commonly support more than 200 golfers daily.

Because of this great variation in use, existing conditions, and micro- and macro-climates, the answer has to be the professional superintendent. This person must be a problem solver and not just a schedule maker and ramrod of a maintenance crew. It is to the professional and to those working toward that goal that I wish to direct my thoughts and information on topdressing as a key management program to excellent putting golf greens. I have no cookbook formula to give anyone that will guarantee success, but better greens are possible if you can put the pieces together.

There is nothing really new about the concept of topdressing. Since the beginning of golf course management, it has been a natural or common practice. Unquestionably, topdressing is necessary to improve the trueness of a putting surface. It also seems to invigorate and improve the growing condition of grass. In part, this may be due to the fertilizer or aeration, or both,

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which usually accompany topdressing. For many years the standard practice has been to aerate and topdress twice a year. Some courses still follow this practice. Others may aerate six times per year, but few courses have used light, frequent topdressing as a major component of their putting green management programs.

Several factors led us into the study of topdressing as a major management program for achieving high-quality putting surfaces:

- We learned through previous research and field experience that a medium-fine narrow particle size sand made an excellent growing medium.
- These types of sands were relatively noncompactible.
- They produced a stable firm surface.
- They accepted water at relatively high rates.
- They retained moisture in the root zone as well as did most mixes presently used for golf greens.
- Their nutritional problems were no more difficult to solve than those of the various soils and mixes commonly used.
- With the right sand, we had a medium that was easy to apply and to work into the surface of growing grass.
- Because our putting green grasses produced more organic matter than we needed, it was unnecessary to amend these sands to make a topdressing mix.

One major problem with any new program is how to get it accepted if it is likely to increase labor and material costs. To avoid this problem, we decided to eliminate aerating and verticutting from our basic experiments so that the total time expended on green management would remain about the same.

(cont'd. on page 18)

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On February 1, 1969, after working as a sales representative for Tuco, **Walter W. Fuchs** started Turf Products, Limited. During the first year of business, Wally worked out of his home, making both sales calls and deliveries. Wally's wife, Bonnie, helped build the business by answering customer phone calls and performing other office duties.

In 1970, Turf Products moved into the Sprinkler Irrigations' building. The company utilized this rented space for one year. In 1972, Wally and Bonnie moved Turf Products to a rented warehouse in Addison.

The year 1973 was an important year for Turf Products. On May 1st of that year, **John Lebedevs** started work as a seasonal employee. After graduating from Northern Illinois University, John returned as Wally's first salesman. During the fall of 1973, Turf Products, Ltd. moved into its present building in West Chicago.

The "voice" of Turf Products, Charlotte Boal, started with the company in July of 1976. Most customers would recognize Char's voice; however, only those customers who have visited the office would recognize her face. Charlotte and Bonnie are responsible for all of the office duties at Turf Products.

From 1976 to present, Turf Products continued to grow. On January 1, 1980, **Don Spier** was hired as the salesman for the north side. The current warehouse crew includes **Jim Daleiden** and **Roger Lynch**. Both of these employees have been with Wally for over five years.

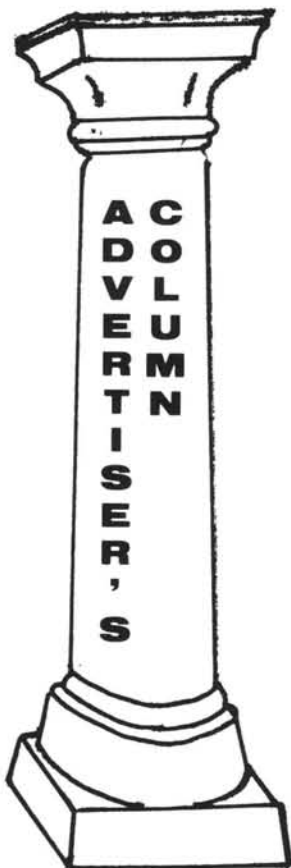
Walter Fuchs' business philosophies of customer service and product knowledge have served as the backbone of his company. The employees at Turf Products remain committed to these philosophies. Most of the customers orders are shipped within twenty four hours after the order is placed.

Turf Products is thankful for the support our customers have given us. We look forward to a continuing relationship with our valued customers.

Helpful Hint

A fast, proven effective method in pinpointing the smallest tubing leak on the irrigation hydraulic line system is that of liquid detergent soap injection. Soapy bubbles will appear directly over the broken tubing, thus identifying the leak. (David Bailey, CGCS/High Ridge CC). A different approach to the same problem is the injection of methyl bromide. As the gas takes the path of least resistance to the location of the cut, the area where the grass is killed will identify just that; the location of the cut. (Mike Bailey, Supt./Boca Greens CC)

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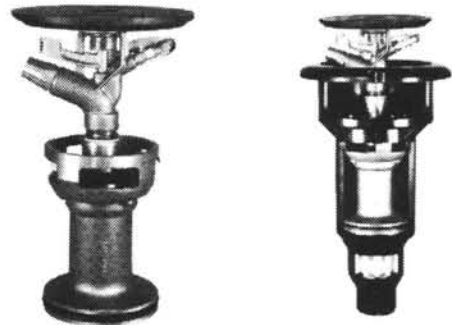
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(Sand Topdressing cont'd.)

We also decided to premix fungicides, herbicides, fertilizer, and bentgrass seed into our topdressing sand. Our management practices for greens, therefore, would consist of mowing, irrigating, and topdressing.

It worked for us, but, for a practical field operation, the premix of chemical and fertilizer posed many problems. Added chemicals and fertilizer were not always needed. During periods of very little growth, fertilizer was needed, but added sand was not. Once herbicides and fungicides were added to a sand, the topdressing material had to be handled, stored, or disposed of under EPA regulations.

A key question to be answered in our research was whether frequent topdressing could effectively control accumulation of thatch. Would it not enable us to get away from the problem caused by buried thatch layers that impede water movement and restrict depth of rooting? Would it not create a uniform growing medium and aid in the breakdown of this organic matter? We need a vigorous renewing turf to have a putting surface. On many greens, vigorous turf also produces excess thatch, which gives an untrue surface, increases disease potential, and reduces the fastness of the green. Frequent light topdressing could, therefore, solve many of our problems in maintaining a high-quality putting surface.

Experimentally we proved what we believed to be true, but the real value of any experimental work is its application to the field. Therefore, let us look at a range of field questions and their possible answers:

Q. Do you tend to build up the depth of the green much faster than typical aerating and topdressing practices?

(cont'd. on page 19)

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Division Manager

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LEBANON

A. There is very little difference. At the frequencies that produced our best putting surface, the difference was less than 1/4 inch per year, when compared to standard practice. On golf course, we have not seen an observable difference.

Q. Do you recommend limiting aeration and verticutting altogether once you start a topdressing program?

A. No. The condition of your present green will, in part, govern how fast topdressing can become a major management program. It is best to increase aeration at first to ensure a good transition between your old and new surface. Some courses have found that a double aeration, deep aeration, or both, work best for them. During the first year, some courses have gone from two basic aerations to a maximum of six. Tines of 5/8 inch are used to start, then only 1/2- or 1/4-inch tines. Their topdressing might be much heavier at first, but they are soon on the 1/32- to 1/16-inch application rates. Verticutting may or may not be used, but with present-day equipment many superintendents have found it beneficial.

Q. Once on the program, is aerating completely eliminated?

A. No. But we no longer use aeration as our basic and most effective means of relieving compaction and removing thatch. Once we have a new uniform surface with a depth of 2 to 3 inches, late spring or early summer aeration, or both, may be in order. Even though we do not have a buried thatch layer, we may want to reduce the density or firmness of the surface. Verticutting the plugs on the green will separate the sand from the organic matter. By removing the organic matter and brushing the sand into the green, you will have topdressed without the need for adding extra sand. Some superintendents feel that, of their 12 to 18 topdressings per year, 2 or 3 would be verticutting their aeration plugs.

Q. If you aerate, aren't you opening up the green for greater Poa annua invasion?

A. Yes and no. It depends on the time of year. We recommend only aeration in the late spring and early summer when *Poa annua* germination is at a minimum.

Q. How long before a topdressing program will make a major difference in the surface of the green?

A. This again depends on the condition of your green when you start the program and how soon you are developing a uniform surface. Considerable improvement has been noticed in greens before the end of the first year. More typically, it takes about 18 months.

Q. Will the golfing membership like the new green surface?

A. Maybe yes — maybe now. If your golfers want a true firm green, the answer will be yes. If they expect a poor shot or an improperly played shot to stick on the green, they will be unhappy. Some players will have to take a few golf lessons and learn how the game is played.

Q. How frequently do I need to topdress to achieve the maximum benefits of this type of program?

A. How fast is your grass growing? It is very likely that 20 applications a year (year-round play) would be too many. Fifteen applications was just about right for our Penncross green. At some periods of the year, topdressing every 2 weeks is just right, but you may well go for 8 weeks between some applications.

(cont'd. on page 20)

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(Sand Topdressing cont'd.)

Q. Will just any sand or topdressing mix give basically the same results?

A. No, for several reasons. Coarse sand particles do not work readily into the surface grass. Golfers do not like to putt on greens that have just been topdressed. Coarse, sharp sands dull mowers and are abrasive to the grass. Sands that are too fine can seal the surface of a green and reduce infiltration.

Q. What type of sands do you recommend?

A. A relatively fine narrow range of particle size. Round sand particles are best. Table 1 gives the particle ranges we presently suggest for construction and topdressing.

Q. Do you mix any amendments with the sand?

A. No. Amendments must be uniformly and evenly mixed if they are to measure up to their potential, and this greatly increases the cost of the topdressing medium. Topdressing is difficult to apply when moist. When dry, mixes separate. Typical sand and organic mixes become thin layers of organic matter and sand by the time they are brushed into the turf surface, and irrigation further separates them. Very fine organic matters can seal the surface, and coarse organic matter does not readily work down into the grass. Most greens already are producing more organic matter than we want, so why should we add more?

Q. Can I apply topdressing too frequently?

A. Yes. It is important to maintain some organic cushion. Excessive turf damage can result from ball marks where sand is applied too frequently, too heavily, or both.

Q. How much sand should I apply at each topdressing?

A. Assuming your only objective is topdressing and not quick buildup of a new surface, you should be applying 1/32 to a maximum of 1/16 inch.

Q. How do I apply such small amounts?

A. It takes good equipment and a skilled operator. Topdressing machines set at almost closed application settings have done a good job. Some superintendents have found broadcast fertilizer equipment to be the answer.

Q. Can these uniform medium fine sands be applied at the higher rates typically used when aerating and topdressing once or twice a year?

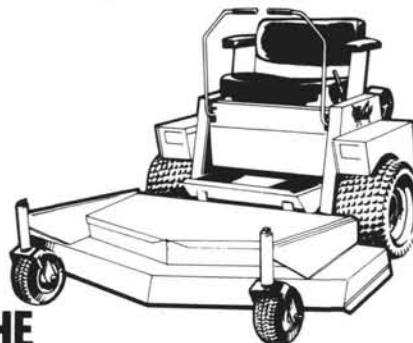
A. No. These finer sands are not as easy to move and push around over the green. If heavy amounts are desired for some reason, it would be best to make several uniform fine applications.

"Hot Tip"

Summer's heat is on it's way,
It's that time of the year.
A tall tree, a short rope,
Or a refrigerator full of cold beer.
Fortification, whatever the route
Instincts relate, better watch out.
Henny Penny in the Pea Patch,
Whatever the name,
Let the Buyer Beware,
Is the Name of the Game

Kenneth R. Zanzig

NOW-MOW AND "FINISH" TRIM AT THE SAME TIME



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