

Pond and Lake Conditions —

(Continued from Page 6)

atmosphere. This eliminates the supply of oxygen to the living organisms in the pond they suffocate.

Lake Bed Aeration

Aeration means adding air to the water. Because air contains 22% oxygen, aeration adds oxygen to the water. "To restore a lake to health, it is essential to get oxygen down to the lake bottom. Lake bed aeration not only adds oxygen to the surface water but to the water at the bottom of the lake as well. Once the lake is full of oxygen near the bottom, new insect larvae, snails and other fish food can begin to live on the bottom.

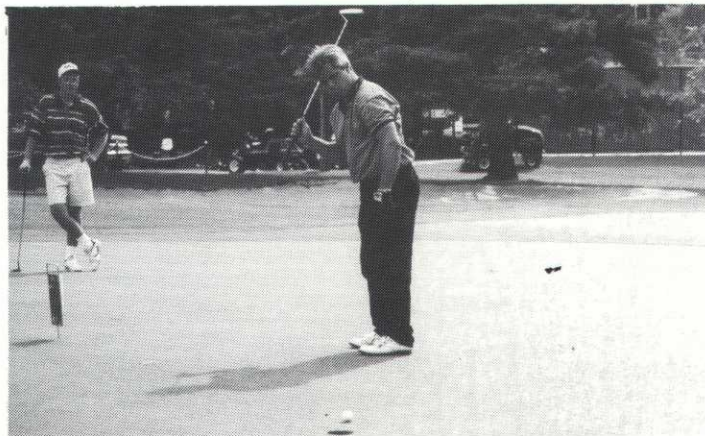
Lake eutrophication begins when the BOD (Biological Oxygen Demand) of a lake cannot be met. When too much pollution enters the lake, plant and algae growth dies and sinks to the bottom and an overload of organic buildup occurs. The lower forms of life on the lake bed die and this debris rots. Anaerobic bacteria, which need no oxygen, give off deadly poisonous gases, such as hydrogen sulfide, ammonia and methane. These gases, as they arise through the water, unite with and bind up any dissolved oxygen remaining in the water. There being no oxygen left, the fish die.

By pumping compressed air out of the lake bed aerator, the rising air bubbles bring the bottom water to the surface. Large volumes of water lose bad gases to the air and

pick up more oxygen while on the surface. If oxygen is present at the lake bed, dead organisms won't accumulate. What there is will quickly be eaten by aerobic bacteria, thus providing for a healthy lake environment.

Aeration systems also reverse lake aging and degradation; clean up lake water and improve water clarity; oxidize phosphate, ammonia and nitrate to reduce their level; stop buildup of organic and inorganic pollutants that are "killing" your lake; increase fish growth, fish production and carrying capacity of your lake; reduce aquatic vascular plant growth; prevent summer and winter kill of fish; keep water open year around to water livestock and help reduce unsightly green algae and planktonic algae blooms.

—Keeton Fisheries Consultants, Inc. in *The Perfect Life*



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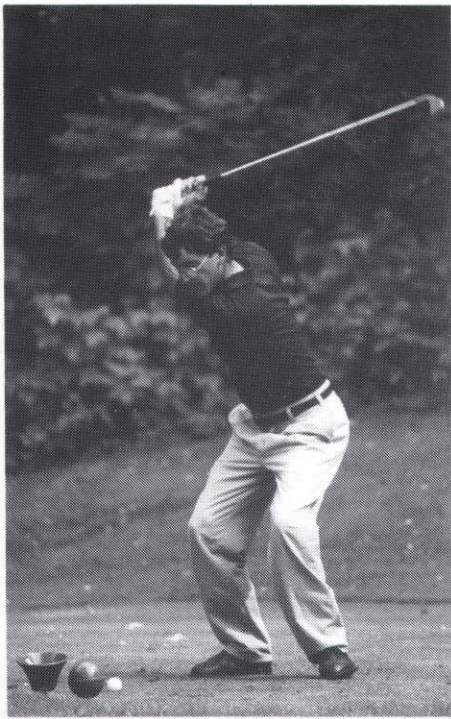
Wash Penncross Bentgrass

**Bentgrass and Kentucky
Bluegrass Turf Available**

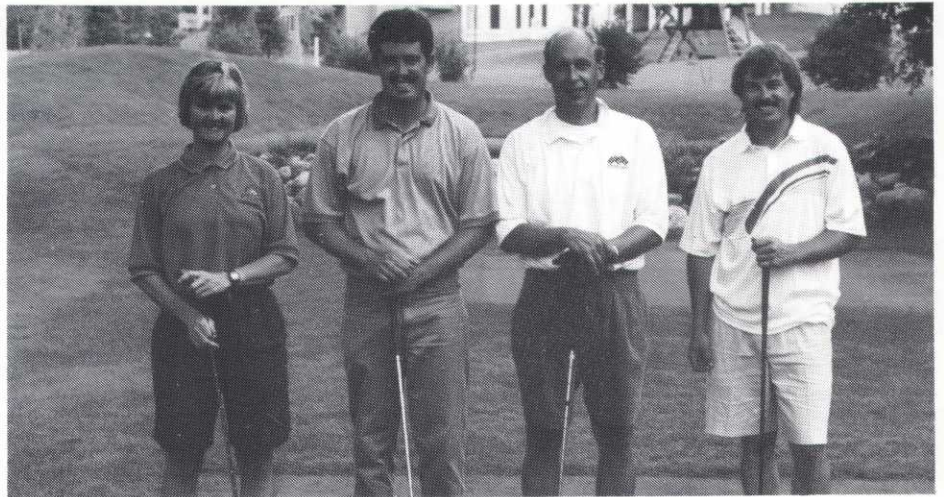


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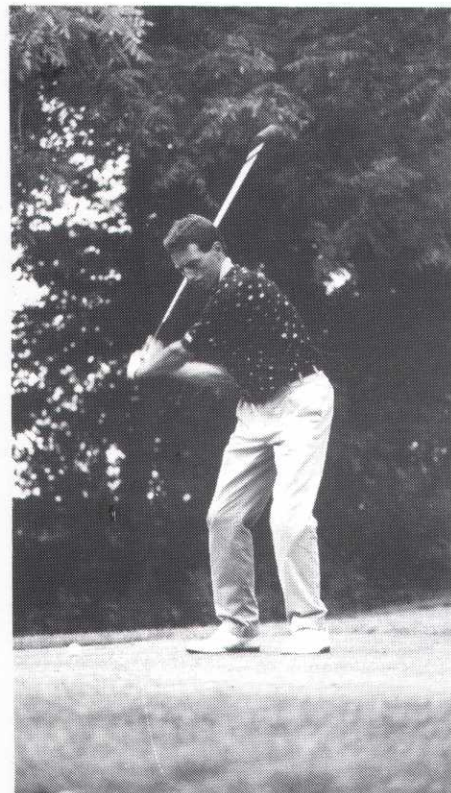
*Contact us about golf course construction and soil mixes.
Blaine office 612-784-0657*



JIM KASSERA
Willingers Golf Club



This month's featured foursome: Left to right: Patty Knaggs, Hazeltine National G.C.; Gregg Christians, The Wilds; Dale Parske, CGCS, Turf Supply, and Jerry Webb, CGCS, Wedgewood Valley.



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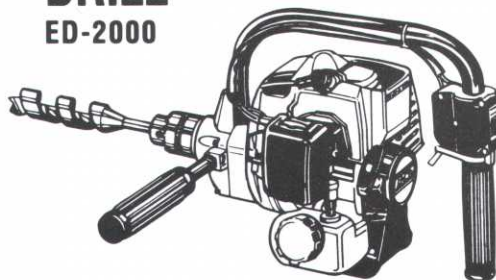
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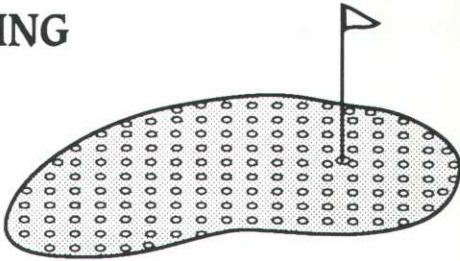
See your local Echo dealer or call 1-800-432-ECHO
for nearest dealer location

A (W)HOLE IN ONE

One-stop shopping for golf course materials

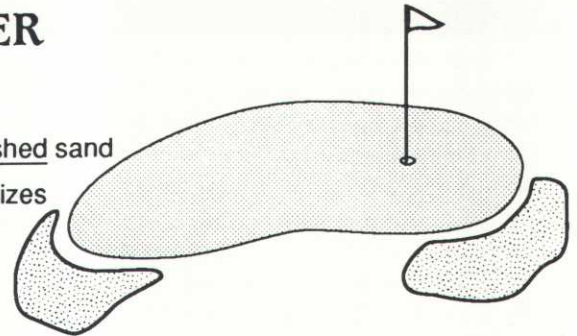
TOPDRESSING MATERIAL

- 80/20, 70/30, or mix to order
 - Sand screened with 1mm screen (USGA spec)
 - Product blended then rescreened through 3mm screen to assure clean mix
- All specs available upon request*

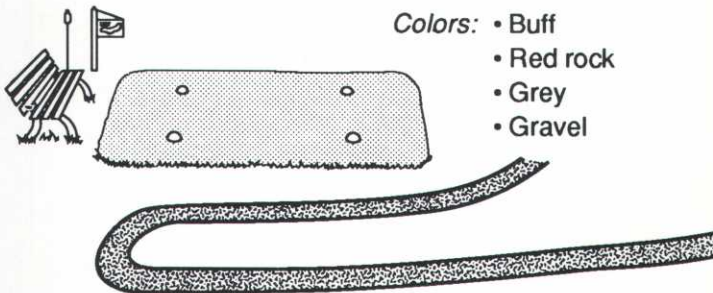


BUNKER SAND

- Clean, washed sand
- 2 particle sizes to choose from



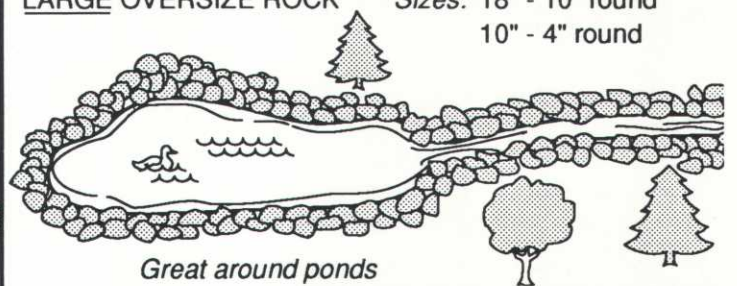
CARTPATH AGGREGATE



- Colors:
- Buff
 - Red rock
 - Grey
 - Gravel

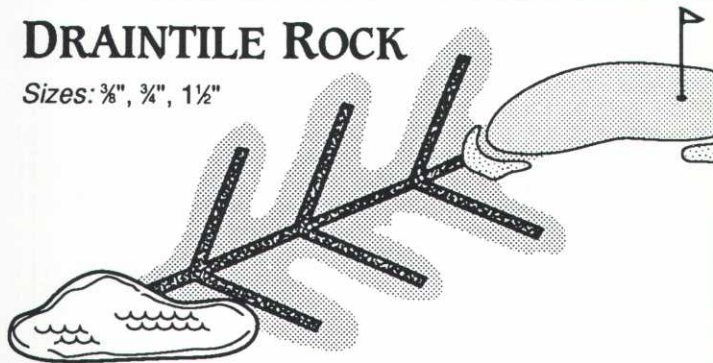
RIP RAP

- LARGE OVERSIZE ROCK Sizes: 18" - 10" round
10" - 4" round

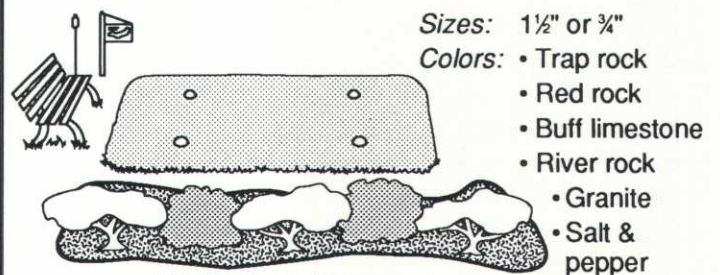


DRAINTILE ROCK

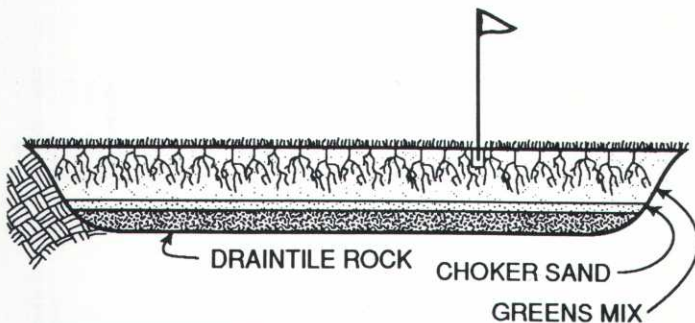
Sizes: 3/8", 3/4", 1 1/2"



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EDITOR'S CORNER

By Dale Wysocki
Faribault Golf & Country Club



The first signs of a rapidly approaching autumn season are beginning to rear their heads. There has always been one favored Sugar Maple that always starts to turn a scarlet red during the last week of July. This year it started to turn on July 16th. This, along with the upcoming MGCSA Championship and reports of golf courses getting their aerifiers ready for action are definite signs of autumn.

However, regardless of what the signs are, there is still the calendar that states August, September and October are there to deal with before the turf goes into a well-protected dormancy. We also have to think about what this year did to our turf and how we are going to go about rejuvenating it so when it goes in to winter, it is healthy and hardened off. With a couple months left in the season there certainly is quite a lot to think about.

* * * *

The Stodola Research Scramble is going to be played at Hazeltine National Golf Club. Mind you that later that week the USGA will be utilizing Hazeltine's fine layout for the U.S. Mid-Amateur Championship. This also is a chance to get your club president, greens chair and club manager or other assorted club board members to get out with you and see what the MGCSA is all about.

In addition, this is a prime time to discuss how MGCSA-supported research affects your club's playability and how it is important not only to yourself, but also to the golfing members that MGCSA meetings are a chance to channel education into a very busy month of golf course management. Remember the Stodola Research Scramble is not a competition to win it all, but rather a chance to reflect on your professionalism. When signing up, think of your professional status within.

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GCSAA Board of Directors Announces New Trade Show Policies

The board of directors of the Golf Course Superintendents Association of America (GCSAA) has announced the implementation of several new policies for the association's International Golf Course Conference and Show.

Before being presented to the board for approval, the policies were reviewed by GCSAA's Industrial Advisory Council (IAC). The new policies are:

- Prior approval is now required for exhibitors planning guest appearances, promotional giveaways and contest to ensure that these events are appropriate for all attendees.
- All exhibitors at GCSAA's trade show must have goods and services that relate to the golf course management industry.
- Guest hall vouchers have been eliminated but a more attractive trade show-only pass will be offered.
- Spouses of attendees, distributors and exhibitors will be allowed on the trade show floor at no charge.

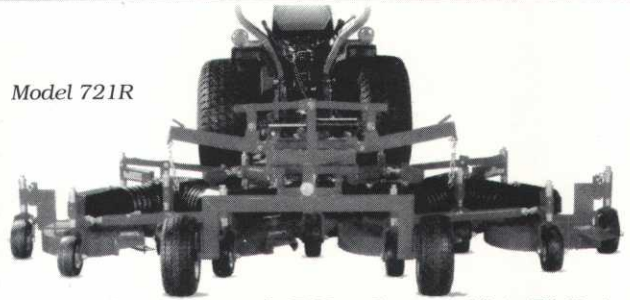
"These policies will help ensure a more professional atmosphere at our biggest annual event," said GCSAA President Joseph G. Baidy, CGCS. "The board appreciates the assistance provided by the IAC in developing these new policies."

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