TORO Toro has an aerator that's right for you. TORO

Hydro-Ject[™] 3000



A revolutionary turf cultivation tool that deeply aerates compacted soils without causing surface disturbance using high velocity water.

Fairway Aerator



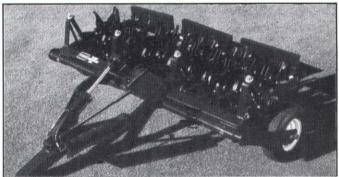
Productivity, extra depth and durability in one machine...This 1.5 acre per hour aerator gives fairways and other large turf areas the same quality aeration previously limited to greens.

Greens Aerator Get in 18 holes in the time it took you to do 9



Compare that to the competition. Toro keeps you way out in front because of its increased ground speed—and wider coring width. 13,000 square feet per hour means you'll do the job almost twice as fast as you're doing it today.

Turf Aerator 686



Three independent coring heads follow the ground contour both vertically and horizontally over uneven turf conditions. You get deep penetration with twelve (12) 70 lb. castings spread across a $6\frac{1}{2}$ foot aerating swath for those large turf area jobs.

Choose from three tractor-drawn aerators to effectively and economically aerate your general turf areas.



HOLE NOTES

Official Publication of the Minnesota Golf Course Superintendents' Association

1995-96 MGCSA BOARD OF DIRECTORS

Officers

President	James Gardner, CGCS The Wilds Golf Club 612/496-0037 • Fax: 612/445-6320
Vice-Presi	dentFred Taylor Mankato GC 507/388-2546 • Fax: 507/387-4991
Secretary	John Granholt Eau Claire G&CC 715/836-8422 • Fax: 715/836-8425
Treasurer	
Ex-Officio	Kevin Clunis, CGCS St. Croix National GC 715/247-4260 • Fax: 715/247-4266

Directors

Jeff BackstromCannon GC 507/263-0831
Leif EricksonO.M. Scotts Company 800/728-0354
Butch Greeninger MTI Distributing Co. 612/475-2200 ext. 202 • Fax: 612/475-0351
Richard GrundstromIndian Hills GC 612/770-3091 • Fax: 612/770-2302
Robert Panuska Waseca Lakeside Club 507/835-2574
Thomas ParentRiver Oaks Municipal GC 612/438-2707 • Fax: 612/438-2782
Charlie Pooch Les Bolstad U of Minn. GC 612/627-4138 • Fax: 612/627-4391
David SimeBenson GC 612/843-2109
Pat Walton, CGCSRolling Green CC 612/478-2179 • Fax: 612-478-6025

* * *

Editorial and Business Office Scott Turtinen, Executive Director Minnesota Golf Course Superintendents' Association 240 Minnetonka Avenue South/P.O. Box 617 Wayzata, Minnesota 55391-1617 TEL: 612/473-0557 • FAX: 612/473-0576 TOLL FREE: 800-642-7227

FROM YOUR PRESIDENT'S DESK

Garske Scholarship Scramble Attracts Full Field at Izaty's On Lake Mille Lacs



Izaty's Golf & Yacht Club hosted the MGCSA's Annual Garske Scholarship Scramble on the balmy shores of Lake Mille Lacs. Steve Schumacher and his staff had the course in great condition with greens as smooth as silk, unlike "The Lake." No wonder Izaty's is a popular resort destination. We again had a full field with a few teams on the waiting list. Thanks to all teams who participated.

While last year's weather pattern tested our courses and strategy on disease control, this year we are finding out how strong our irrigation and drainage systems are.

Editor's Corner the entire MGCSA Executive Committee and a majority of Board members in essence became editors recently. We determined that Tom Parent's original two drafts of *One Guy's Opinion* and *Editor's Corner* indeed transcended, not only for sure Minnesota nice, but also, we believe, compromised the dignity of the MGCSA membership. We certainly condone Tom's genuine effort to apprise us of pertinent and relevant issues, but it was the format used in those drafts that we had an issue with.

Tom is right. We (MGCSA Board of Directors) do rely on membership input and direction. You must be informed to achieve this. In this month's issue of *Hole Notes* you will find the GCSAA Affiliation Agreement. The August MGCSA Board of Director's meeting will discuss the Agreement along with, believe it or not, other controversial issues. I encourage you to let us know of your concerns and ideas. The Board discussions on the Affiliation Agreement will then be brought to the GCSAA through September's Chapter delegate forum.

While sometimes the GCSAA seems to be dictatorial, I strongly believe that the GCSAA's position and professional influence on our profession and the golfing and non-golfing public can only be commended and will continue to be directed and influenced by its membership.

I also look forward to Tom Parent's continued involvement on the MGCSA Board of Directors.

> —Respectfully, James D. Gardner, CGCS MGCSA President

HOLE NOTES (ISSN 108-27994) is published monthly except bi-monthly December/January, February/March for \$2 an issue or \$20 per year by the Minnesota Golf Course Superintendents Association, 240 Minnetonka Avenue South, Wayzata, MN 55391-1617. Scott Turtinen, Publisher. Periodicals postage paid at Wayzata, MN. POSTMASTER: Send address changes to HOLE NOTES, 240 Minnetonka Avenue South, Wayzata, MN 55391-1617.

Inside This Issue of Hole Notes



Departments

From Your President's Desk By James Gardner, CGCS
Committee Reports By Kevin Clunis
Editor's Corner

*** SPECIAL INSERT ***

GCSAA AFFILIATION AGREEMENT

Advertisers

Bio Pro
Classifieds
Cushman Motor Co
Duininck BrosBack Cover
ЕСНО
Glenn Rehbein Companies
Hedberg Aggregates
Leitner Company
Lesco
MTI Distributing CoInside Front Cover
MTI Distributing Co
MTI Distributing Co
MTI Distributing Co
North Star Turf
North Star Turf
Par Ex
Paskvan Consulting
P&H Warehouse
Plaisted Companies
Polfus Implement Inside Back Cover
Precision Turf & Chemical, Inc
Prinsco
Rohling Green Corp
Scotts Co
Superior Tech Products
Turf Supply
Wilbur Ellis
Williams & Gill

Par Ex® introduces a family of mid-sized fertilizer grades designed to meet the needs of today's closelymowed turf.



WHY MID-SIZE GRADES FOR CLOSELY-MOWED TURF?

BECAUSE fairway-sized particles are too large to apply to closely-mowed turf.

BECAUSE greens-sized products can be difficult to spread.

BECAUSE IBDU³ is the most reliable, most consistent source of slow-release nitrogen.

For more information contact.

Precision Turf & Chemicals 7728 Commerce Circle Greenfield, MN 55373 612/559-5293

> Ken Quandt Territory Manager West Allis. WI 414/327-3993

4 • HOLE NOTES

AUGUST 1996

Water Creates Interest for Golfers And Habitat for Birds

By Lois Berg Stack Extension Specialist, Ornamental Horticulture University of Maine Cooperative Extension

Water is a very important part of the golf course. Water hazards add interest and challenge to the game, but ponds and streams on the course also provide food, cover and nesting habitat for birds.

When creating water gardens for wildlife, be sure to keep water quality in mind, and work to prevent erosion. Depending on the aquatic wildlife you want to maintain, think about the nature of the pond's bottom, and water depth, temperature and pH. Think about plant selection during the pond design process. Design the garden to provide appropriate water depths for various aquatic plants, and think about the amount of moisture in the soil around the pond at all times of the year.

Plants for Ponds

Water gardens are not complete without plants. When selecting plants, keep in mind that some plants perform best in wet areas adjacent to bodies of water, while other plants do best in various depths of water. Stick with a reputable nursery to select the best water plants. Here are just a few plants you might consider to plant in your pond; these are selected for their value to birds.

Wapato (Sagittaria Latifolia) grows in water as deep as 18 inches. Its starchy tubers are important food for black ducks, mallards and wood ducks. **Deep-Water Duck Potato** (Sagittaria Rigida) is a related plant that produces small yellow tubers which are eaten by waterfowl.

Hard-Stem Bulrush (Scirpus Acutus) also does well in water up to 18 inches deep. It produces seed that is eaten by waterfowl. It also provides excellent shelter for water birds.

Cord Grass (Spartina Alterniflora) does best in shallow water. It is a large plant, reaching a height of 4-6 feet. It is especially ornamental at the edge of a pond, and it provides cover and food for waterfowl.

Cattails (*Typha Latifolia and Typa Augustifolia*) provide cover for waterfowl, game birds and songbirds. They should be planted with care, as they can be very aggressive. To control their spread, manage water depth, since cattails do not compete well in dry soil or in water deeper than 18 inches.

Wild Rice (Zizania Aquatica) should be planted in water 6-18 inches deep. It produces excellent seed not only for poeple but also birds such as black ducks, teals, wood ducks, redwing blackbirds, bobolinks and song sparrows.

Plants for the Water's Edge

Many plants, both native and alien, do well in wet and moist areas adjacent to ponds. These plants provide beauty in the landscape, cover and nesting sites for birds, and food for birds at various times of the year. This list of some of the best plants for the water's edge starts with lowgrowing groundcovers and progresses to tall trees. This vertical effect must be considered because a combination of heights is important to many birds. Orioles, for example, nest high in trees but feed mostly on the fruits of shrubs and understory trees.

Groundcovers for the water garden include bunchberry (Cornus Canadensis), which provides excellent food for sparrows, thrushes and vireos. If you are fortunate enough to have resident swans, they feed heavily on mosses. Wintergreen (Gaultheria Procumbens), Partridgeberry (Mitchella Repens) and Bearberry (Arctostaphylos Uva-Ursi) all are superb native groundcovers that provide berries for grouse and related birds.

Waterside perennials provide great color for the landscape and also seed to feed birds. Some good perennials for these habitats are Yellow Flag (Iris Pseudacorus), Blue Flag (Iris Versicolor), Turtlehead (Chelone Glabra) and Queen-of-the-Meadow (Filipendula Ulmaria). A simple large planting of Joe-Pye Weed (Eupatorium Purpureum) provides stunning white flowers in early summer, followed by attractive purple-red fruits in late summer.

Shrubs like **Red Osier** (Cornus Sericea) and **Winterberry** (Ilex Verticillata) are superb landscape plants, providing excellent winter color and fruit for birds such as bluebirds, catbirds, robins, thrushes and waxwings. They thrive in wet locations. In more well-drained areas near bodies of water, good bird food can be provided by several shrubs. **Bayberry** (Myrica Pensylvanica) feeds bluebirds, catbirds, chickadees, meadowlarks and tree swallows. **Elderberries** (Sambucus Canadensis) are eaten by pheasants, bluebirds, cardinals, catbirds, grosbeaks, kingbirds, phoebes, robins, sparrows, thrushes and waxwings. **Snowberry** (Symphoricarpos Albus) yields fruit in fall and winter, providing food for pheasants, finches, grosbeaks and robins. Man biburnum species produce fruit for cardinals, robins, thrushes and waxwings.

Small trees for waterside gardens include Mountainash (Sorbus Aucuparia), whose fruits are favored by (Continued on Page 7)

TORO Toro Topdressers Reduce Maintenance!



TORO'S TOPDRESSER 2300

offers huge capacity, fast topdressing speed and instant on-off application control for greater productivity.

With its meticulous coverage and highspeed brush, it yields an incredibly even application (light to heavy) from end to end of its 60" swath. Six flotation tires support a full load's weight.

Perfect for topdressing after aeration, enhancing decomposition of thatch or covering seed.





THE WORKMAN WITH SPREADER provides more flotation with less compaction. Toro's transaxle delivers power to the rear 23" high, 10" wide flotation tires or optional 13" wide, 24" high tires. And smooth-ribbed front tires with 70° power steering geometry practically eliminates turf scuffing or skating — even on greens, fully loaded.



THE TORO TOPDRESSER 1800 is a Workman[™] 3000 Series attachment with PTO powered hydraulic system that greatly reduces maintenance problems, evenly distributes topdressing with a high speed brush and includes a continuous belt feed with on/off switch at the operator's position. Add the optional electric gate control and the application can be controlled from the operator's position.



Water Plants-

(Continued from Page 5)

grosbeaks, thrushes, waxwings and finches. **Shadblow** (*Amelanchier Canadensis*) produces fruits that are delicious to people, but they are usually eaten first by bluebirds, cardinals, catbirds, crows, bluejays, orioles, robins, thrashers and woodpeckers. Fruits of the **Sumacs** (*Rhus Species*) feed turkeys, bluebirds, cardinals, catbirds, purple finches, phoebes, robins and vireos.

Trees for water gardens include **Balsam Fir** (Abies Balsamea). This tree is not refined enough for highly visible parts of the landscape, but in wilder areas it provides cover and food for nuthatches and chickadees. A better evergreen for the landscape is **White Pine** (Pinus Strobus), which attracts mourning doves, chickadees, grosbeaks, nuthatches and pine siskins. **Birches** (Betula Species) feed redpolls, chickadees and siskins; **River Birch** (Betula Nigra) is particularly good for moist soils. **Eastern Hemlock** (Tsuga Canadensis), which tolerates considerable soil moisture, attracts pine siskins and chickadeess. **Maples** (Acer Species) yield seed that feeds bobwhites, evening grosbeaks and nuthatches.

Birds Attracted to Ponds

Your efforts at creating water habitat for birds will be rewarded by the presence of both resident and migratory birds. The serenity of the water provides an excellent earlymorning place to watch birds and other animals.

The green-backed heron spends summers in most of the eastern U.S. It is attracted to all water sites, including ponds, lakes and swamps. It is also adaptable to populated areas, and is sometimes found in backyard ponds in cities. The green-backed heron requires some cover, which can easily be provided by cattails, shrubs and grasses. Floating plants provide cover for the young fish, frogs and invertebrates which form the basis of the heron's diet.

Mallards are found throughout the continental U.S. They build ther nests in dense vegetation. Mallards feed on a wide variety of vegetation, and also on nymphs and larvae of aquatic flies and beetles.

Wood ducks summer in Minnesota, along with golfers. They are shy, and are most likely to be seen in woodland ponds or river backwaters. In nature they tend to nest in cavities high in trees, but they do nest in boxes placed on posts 2-5 feet above water level. Wood ducks eat acorns, beech nuts, water plants, bulrushes, pondweed and water lily seeds.

American kestrels are generally found in open grasslands where they hunt for small mammals and birds, but during their migrations they feed on high numbers of dragonflies. Since dragonflies spend a large amount of time near ponds, you may see kestrels near your ponds for a few weeks in the fall during their migrations.

Killdeer are usually found in large open areas, often nesting in areas quite close to people. Golf courses are common nesting sites. Killdeer feed on insects and crustaceans. Because many insects require water to complete part of their life cycle, water gardens in open areas often attract killdeer.

The eastern kingbird, which goes by the redundant zoological name Tyrannus tyrannus, is a bird of open areas. It nests in trees near water. Since it feeds on insects, open water and flowering plants are important elements of a landscape created to attract these wonderful birds.

Purple Martins are our largest swallows and favorites of bird watchers. They feed primarily on mosquitoes, which are prevalent in areas with ponds that provide habitat for their immature stages.

Tree swallows are found throughout the northern U.S. and Canada. They are attracted to places with open water and snags for nesting. If your landscape is populated by woodpeckers, you may one day see tree swallows, since they often nest in old woodpecker nest holes. Or, you can supply nesting boxes. Tree swallows eat insects while in flight, but they also feed on bayberry fruits in the fall.

Barn swallows are found throughout most of the U.S., and they nest almost anywhere. Like other swallows, they eat primarily insects, which makes them likely candidates for the water garden.

The common yellowthroat is found throughout the U.S. With its yellow underside, brown back and black-masked face, the male in unmistakable. Common yellowthroats prefer open wetlands where insect populations are high. They frequent clumps of cattails and other thick, low plants.

If your water garden doesn't attract any other birds, it is sure to attract red-winged blackbirds. They are typically found in cattail marshes, but they frequent many drier habitats as well. Red-winged blackbirds can be attracted to a site with a seed feeder, but they eat more insects than seeds.

ATTENTION:

The September 15th Stodola Research Scramble on "The Classic" course at Madden's on Gull Lake will be a SPIKELESS TOURNAMENT. Change your shoes now and enjoy the game of golf!

A good-looking machine is one thing. A whole lot of improvements are the other 10.



The Jacobsen Greens King[™] V Triplex Greens Mower has the cut you expect. And more.

- 1. The exclusive FlashAttach[™] System makes changing reels, rollers, spikers and verticutters as simple as pulling a pin.
- **2.** Walk-through operator's station allows easy entrance and exit from either side.
- **3.** Standard tilt wheel and power steering. Rear wheel turns inside the front wheel's radius.
- Fully enclosed engine compartment for quieter operation.
- **5.** Operator friendly controls for easier access and greater visibility clear sight lines all around.
- **b.** Single pedal speed and forward/reverse control. One-touch reel lift/lower pedal.
- 1. Ultra-light footprint minimizes compaction.

- **8.** Open design and handy dome light make accessing the center reel easier.
- **9.** Easy access to battery, radiator, coolant bottle, air filter, hydraulic fill and fuel fill.
- **10.** Standard halogen headlight for dusk and dawn.

Ask your Jacobsen distributor for a Greens King V demonstration today.

THE PROFESSIONAL'S CHOICE ON TURF.



Saint Croix National Golf Club **Player's Guide**

Site of the 1996 MGCSA Amateur Championship

Par 4, 346 yards

A drop of over 100 feet off the first tee offers a dramatic beginning to Saint Croix National. Drive the ball at the front left corner of the green and let it fall to the generous landing area at the bottom of the valley. This drive will leave a short pitch to a two-tiered green.

Par 4, 328 yards A short dogleg left requires a tee shot of about 200 yards favoring the right half of the fairway. From this position you will be left with a short iron over the pond which guards the front of this small green.

Par 3, 194 yards A straightforward par three. Avoid missing long or right. Stop to enjoy the view from the cart turnaround area above the tee boxes.

Par 5, 560 yards The first of two long par fives on the front nine. A drive just left of the right hand fairway bunker leaves you with many options. The second shot can be laid up short of the cross bunkers, just over the cross bunkers, or long hitters can go for the green in two. The pond guarding the right side of the green will come into play on both the lay-up shot and the third shot to the green.

Par 4, 404 yards A classic dogleg left. A drive just left of the fairway bunker leaves a midto-short iron into this green which has trouble just long.

Par 5, 557 yards A long dogleg left par five with trouble left and right along the entire hole. A drive at or just left of the right hand fairway bunker followed by a long and straight second shot will leave a short uphill third shot to a small green.

Par 3, 142 yards A dramatic downhill par three. Simply enjoy the view and don't go long.

Par 4, 389 yards The first of two challenging finishing holes on the front nine. A drive in the right half of the fairway should kick left leaving a mid-to-short iron shot which must be maneuvered around or over the trees guarding the front left of the green. This green has trouble left and long.

Par 4, 388 yards Trouble left and right off the tee makes the key to this hole a straight drive placed at or just left of the fairway bunker. A good drive leaves a challenging uphill second shot which will play one to two clubs longer than the yardage due to the elevation change.

Par 4, 400 vards A dramatic dogleg right which calls for the drive to be placed just left of the fairway bunkers. Out-ofbounds comes into play to the left of the fairway. The second shot will be a mid-toshort iron into a beautiful green with trouble long and left.

Par 4, 297 yards This short dogleg right requires a tee shot between 190-210 yards to leave a short 100-yard shot into the green. Bold players may wish to drive the ball just short of the green, but bunkers and trees then come into play.

Par 5, 490 yards The shortest par 5 on the course requires a drive at or just left of the right hand fairway bunker. Long hitters may be able to reach this green in two, but bunkers short of the green must be carried. The more conservative play is to lay up to the top of the hill and leave a short pitch into a small green.

Par 4, 412 yards Drive the ball just left of the J fairway bunker being careful to avoid the pond on the left of this dramatic par 4. The right side of the fairway provides the best angle into the green which

is guarded by a pond in the back right corner. Don't forget to enjoy the view from this tee!

Par 4, 397 yards This tee shot calls for the ball to be placed short of a steep drop-off. The yardages to the dropoff are as follows: Black = 258 yards, Blue = 234 yards, White = 198 yards and Red = 146vards. Aim at the stand of birch trees on the left to give yourself the best angle into the green. The dramatic second shot requires a long iron over the valley to the green.

15 Par 3, 136 yards A picturesque par three. Just don't go over the green.

Par 4, 382 yards This par four calls for a drive to be placed in the left side of the fairway. The two-tiered green will offer plenty of challenge. Trouble on this hole is over the green.

Par 3, 182 yards This great par three will be the turning point of many matches. The forced carry over water leaves very little room for error. The large undulating green will cause even the best players to stop and think.

Par 5, 540 yards The finishing hole at Saint Croix National requires a drive to be placed just left of the right fairway bunker. The second shot will be a long layup to the bottom of the hill. The fairway bunkers at the bottom of the hill should be your target. The third shot is a challenging short shot with trouble all around this small undulating green.

Total Yardage:

	Black Tees	3506-34	03-6909
*	Blue Tees		36-6544
	White Tees		45-6144
	Yellow Tees	2602–26	49-5251

* The Championship will be played from the Blue Tees.

We're Right on Par for What You Need!

Applications for All Areas of the Game.



For More Information Call Dan or Rick at 612-934-1205 Superior Tech Products 80 W 78th St, Suite 135 Chanhassen, MN 55317