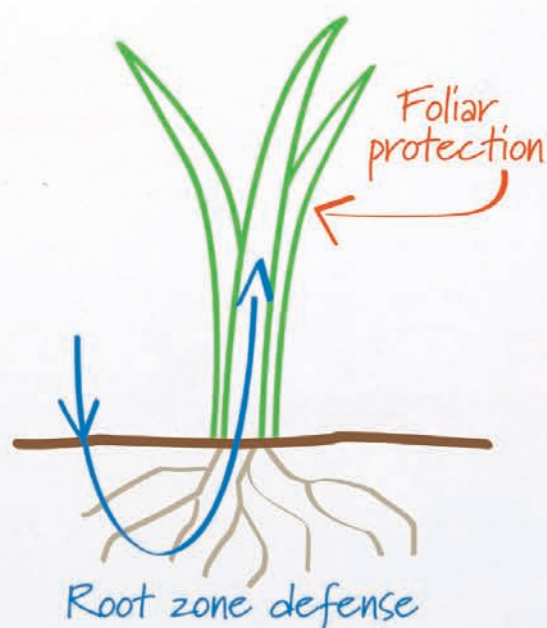


Protect from root to leaf tip
with one defensive play.



Other strobilurin fungicides make you choose which defense to play: control of soilborne diseases or control of foliar diseases. Heritage® fungicide not only moves into leaves and sheaths upon application, but also moves from the soil into the roots and translocates upward where soilborne diseases begin. Defend against both with Heritage. To learn how, visit HeritageTurfDefense.com.

Contact Brian Winkel at 630-391-2170 or brian.winkel@syngenta.com
to learn more about Syngenta products.

 **Heritage®**
Fungicide

 **Heritage® G**
Fungicide

 **Heritage® TL**
Fungicide

syngenta.

2011 Board of Directors

PRESIDENT

Dan Sterr, Stonebridge C.C.

VICE PRESIDENT

Bob Kohlstedt, Fox Bend G.C.

SECRETARY / TREASURER

James Keith, CGCS, St. Charles C.C.

EXECUTIVE DIRECTOR

Luke Cella

BOARD

Chuck Barber, Indian Lakes Resort

Dave Groelle, CGCS, Royal Melbourne C.C.

Michael Mumper, Arrowhead Golf Club

Dave Kohley, Silver Lake Country Club

John Nelson, Merit Club

PRESIDENT EMERITUS

Scott Witte, CGCS, Cantigny G.C.

COMMERCIAL REPRESENTATIVE

Nick Baker, Chicagoland Turf

CLASS 'C' REPRESENTATIVE

Joe Schneider

TURFGRASS ADVISOR

Dr. Derek Settle

EDITORIAL CHAIRMAN

Mike Mumper

ASSOCIATE EDITORS

John Gurke, CGCS

Chuck Anfield, CGCS

GRAPHIC ARTIST

Mark Karczewski

This publication is not copyrighted. We would like to share our articles with any who would like to use them, but please give the author and *On Course* credit.

Table Of Contents

www.magcs.org

MAY 2011 Volume 65 No. 1



Briar Ridge Country Club's bluebirds are actively making homes in the nest boxes on the property. Pictured above, a female bluebird arrives at her box with some grass in beak to make it homey.

FRONT COVER

Three little obstacles guard the small putting green of the relatively short par 4, (385 yards) 7th hole on the White Course at Briar Ridge
Photo credit: Luke Cella

DIRECTOR'S COLUMN

3 Conveying Meaningful Information

Luke Cella

SUPER -N- SITE

14 Erwin McKone, CGCS and Dave Miloshoff -N- Briar Ridge Country Club

Nick Marfise

FEATURES

5 NTEP Putting Green Trials in Illinois

Tom Voigt and Dan Dinelli

11 Avoid the Rebound: Use of Growing Degree Days to Re-apply Growth Regulators

Bill Kreuser

DEPARTMENTS

20 the Bull Sheet
John Gurke

26 MAGCS in Motion
Steven Biehl



The Midwest Association of Golf Course Superintendents (MAGCS), founded December 24, 1926, is a professional organization whose goals include preservation and dissemination of scientific and practical knowledge pertaining to golf turf maintenance. We endeavor to increase efficiency and economic performance while improving and enhancing the individual and collective prestige of the members.

The MAGCS member is also an environmental steward. We strive to uphold and enhance our surroundings by promoting flora and fauna in every facet in a manner that is beneficial to the general public now and in the future.

All editorial and advertisement inquiries should be directed to Luke Cella, Publisher, *On Course*. 11855 Archer Avenue, Lemont, IL, 60439. (630) 243-7900 or visit www.magcs.org for rates and requirements. Statements of fact and opinion are the responsibility of the authors alone and do not imply an opinion on the part of the officers or members.

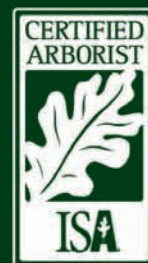


Nels J. Johnson Tree Experts, Inc.

A Proud Tradition Since 1930



Phone: 847-475-1877 • Fax: 847-475-0037
www.nelsjohnsontree.com



DIRECTOR'S COLUMN

Luke Cella, *Publisher*



Conveying Meaningful Information

Several weeks ago MAGCS sent out a survey to the membership on communication via email. The information that was gathered is helping direct our resources to the modes that matter most. We had a very good response rate. Just over 250 people filled it out – thank you very much to those that responded – it really helps to do this every now and then.

Email, by far is the most desirable method of communication, 95% of you prefer this method. The choices were email, Facebook, Twitter, texting, telephone and other – actually I was a little surprised no one wrote in telepathy. Not everyone surveyed had a Facebook, Twitter or LinkedIn account, but everyone had an email account (makes sense, that's how we sent the survey) that they check quite regularly, the minimum was 2 times per day. 110 people surveyed had a smart phone with their email on it.

I was really happy to see that the email format, frequency and content are well received. We will try and add some more pictures to the mix and keep the content fresh to inform all our members. Only half of you knew MAGCS has a Facebook page and a Twitter account. I'll start to include links to these items in all our future communications, so if you chose, you may follow us in this manner.

The jury is still out on posting pictures of members from our events through different social media outlets. After reading some of the responses, I don't think we were clear enough about the photos we would post for the public to see. When the question was written, I only thought images of the membership as professionals attending meetings, education and networking would be used. Each month, we take many pictures at our events and not all of them make it into the magazine, primarily because of space limitations. The idea was to post these "unpublished" pictures to share with membership.

Out of the 242 respondents, 75 of you said you would consider receiving only a digital copy of On Course. 131 responded that you would like the digital version as well as a printed copy and 36 of you intoned you only want a printed copy of the magazine. This is a large change from when we asked the question three years ago, enough for us to look into this endeavor – look for a more detailed survey to help us create this option that is first class and valuable.

Only half of you knew MAGCS has a Facebook page and a Twitter account.

Game on. 115 of you said you would like to participate in a monthly photo contest of pictures from your course. I'll publish/print/post as many as I can and the editorial committee can be the judge of them. Please send your images (highest resolution possible) to luke@magcs.org and look for them to show up. We'll have to come up with a prize, maybe an all expense paid trip to the Turf Clinic and a frame for your photo? No matter what the prize, please send your pics so everyone can enjoy them.

The most exciting response received was to the question: "Do you like the idea of our website highlighting one member each month on our home page? This "Member Profile" page would include information about the course/club, the positive environmental impacts it brings, special challenges faced and portray our members in their key role in maintaining the golf course/club." 191 agreed that this would make sense, and even better 153 said they would participate. I look forward to developing this addition to our website and sharing the positive impact of golf. We will develop this in two ways, one an email survey that you can fill out and submit with your information, or if you prefer a phone call interview – we'll write it up for you.

Thanks again to all those that participated in the communication survey, look for improvements coming to an Association near you. **-OC**



**Each course differs,
shouldn't your
fertilizer application?
Call for a customized
application today.**

**Wheeling 847-537-2177
Mokena 708-444-2177**



ARTHUR CLESEN INC.

Premier Supplier of Quality Products to the Green Industry.

Dedicated To Service!!!



arthurclesen.com

Anderson, Garry...630-514-4114

Anderson, John.....630-669-0519

Hamilton, Dennis..608-295-2494

Lamkin, John.....708-259-4354

Spier, Scot.....847-561-3139



**Discover Phoenix Environmental Care.
A new generation of quality products.**

The complete line of advanced fungicides, herbicides, insecticides and plant growth regulators from Phoenix Environmental Care provides superintendents with superior quality, resistance management tools and guaranteed performance.

To learn how Phoenix's value-enhanced pesticides can benefit your golf course, contact 888.240.8856, or visit www.phoenixenvcare.com.

Rick Grant
Director, Business Development
317-501-2395



©2011 Phoenix Environmental Care, LLC. The Phoenix logo is a registered trademark of Phoenix Environmental Care, LLC. Always read and follow label directions.



Growers of Quality Sod

SERVICE!

LOCAL GROWING FOR
EASY PICKUP OR QUICK DELIVERY.
DELIVERY ON TIME, EVERYTIME.

QUALITY!

FEATURING
ELITE KENTUCKY BLUEGRASS,
BENTGRASS SOD, AND
TURF-TYPE FESCUE

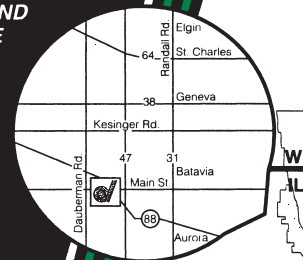
- LOWER MAINTENANCE
- MORE DROUGHT & SHADE TOLERANT
- BETTER WEAR RESISTANCE

PRICE!

CALL FOR A QUOTE

630-557-2900

**MAIN STREET
11 MILES WEST
OF BATAVIA, IL**



FEATURE I

Dr. Tom Voigt and F. Dan Dinelli, CGCS

NTEP Putting Green Trials in Illinois 3 Trials in 14 Years and Still Testing



In three National Turfgrass Evaluation Program (NTEP) studies beginning in 1997, University of Illinois researchers studied creeping bentgrasses on a managed putting green in Urbana. They also worked collaboratively with Dan Dinelli in two on-site trials at North Shore Country Club in Glenview. These trials evaluate the performance of creeping bentgrasses in Illinois in order to assist golf course superintendents and designers when choosing grasses for redoing existing greens or when planting new designs. In this article, we summarize the findings from previous evaluations and provide an update of the current trial.

The creeping bentgrasses in these trials have been rated monthly through the April-October growing season for several characteristics. Quality ratings are made by combining appearance (color and genotype segregation) and important playing surface characteristics (e.g., density, leaf texture, putting surface, resistance to weed invasion, insects and diseases, and mowability). The ratings are presented on a 1-9 scale, where 1=dead turf, 9=best possible putting green quality, and 5=minimally acceptable putting green quality. Genetic color ratings are also presented using a scale of 1-9, where 1=light green and 9=dark green. Spring greenup ratings are somewhat similar also using the 1-9 scale, where 1=completely dormant bentgrass and 9=completely green. Uniformity was rated on a scale of 1-9, where 1=completely nonuniform (entire plot shows total variant segregation) and 9=completely uniform (no segregation over entire plot). Finally, density ratings are presented on a scale of 1-9, where 1=open turf of minimal density and 9=maximum density for the turf use.



short game practice facility putting green with a 90/10 Dakota reed sedge USGA rootzone. Eighteen commercially available creeping bentgrass cultivars were planted in 5' x 10' plots replicated three times. The plots were maintained at 0.125".

They received irrigation and pest controls as necessary. After evaluating these plots from 1998-2002, Voigt and Dinelli (2004) summarized their findings by stating that, "Five cultivars really stood out in this study." The five that performed well were Penn A-1 and Penn A-4, Penn G-1, Penn G-6, and L-93. All of these were fine-textured, extremely dense, and produced outstanding putting surfaces under North Shore management.

After 2002, this green was used to study *Poa annua* invasion and bentgrass segregation (Voigt et al., 2005, Voigt et al., 2006). There were significant differences

among the cultivars' ability to restrict *Poa annua* invasion. The top statistical group of bentgrasses had a range of 3.5% to 7.5% *Poa* coverage in 2004-05. This compares to more than 20% *Poa* coverage in the Penncross plots. Differences in bentgrass cultivar density, growth habit (upright types tended to have less *Poa* than more horizontally growing types), and growth flushes may explain the differences in *Poa* coverage. Differences in bentgrass cultivar aggressiveness – allowing more assertive types to fill in holes, ball marks, and other damage before the *Poa* has a chance to become established – may

(continued on page 6)

1997 On-Site Trial at North Shore Country Club

On-site creeping bentgrass and/or bermudagrass trials, sponsored by the United States Golf Association (USGA), the Golf Course Superintendents Association of America (GCSAA), and NTEP were planted in 1997 at 16 U.S. locations. The North Shore Country Club site was planted on a newly-constructed

explain the differences in *Poa* coverage, as well. Cultivars with the least segregation and the most uniform stand, i.e., Penn A-1 and Penn A-4, had high turf-quality ratings and also had low levels of annual bluegrass invasion.

This research short-game practice green is still intact and being used by North Shore members. In 2010, the quality of the cultivars was evaluated in September and October (Table 1). While there were no significant differences among cultivars in either monthly rating, the 2010 ratings were similar to past ones. Penn A-4 received the highest mean evaluation; Penn A-1 rated near the top of the group; and Pennncross received the lowest rating. The high quality ratings are a testament to turf genetics and to North Shore's management.



Table 1.
September and October 2010
cultivar quality ratings of
1997 on-site putting green
at North Shore Country Club.

CULTIVAR	SEPTEMBER	OCTOBER	MEAN
Penn A-4	8.0	7.7	7.8
Century	7.7	7.7	7.7
Penn G-1	8.0	7.3	7.7
Backspin	6.7	8.3	7.5
Penn A-1	7.3	7.7	7.5
Penn G-6	7.7	7.3	7.5
L-93	7.7	7.0	7.3
Cato	6.7	8.0	7.3
Crenshaw	7.0	7.7	7.3
SR 1020	7.3	7.3	7.3
Imperial	7.0	7.3	7.2
Putter	6.7	7.3	7.0
Grand Prix	6.7	7.3	7.0
Trueline	6.3	7.3	6.8
SR 1119	7.0	6.7	6.8
Viper	6.7	6.3	6.5
Pennncross	6.3	6.3	6.3
Providence	5.7	7.0	6.3
LSD 0.05	NS	NS	

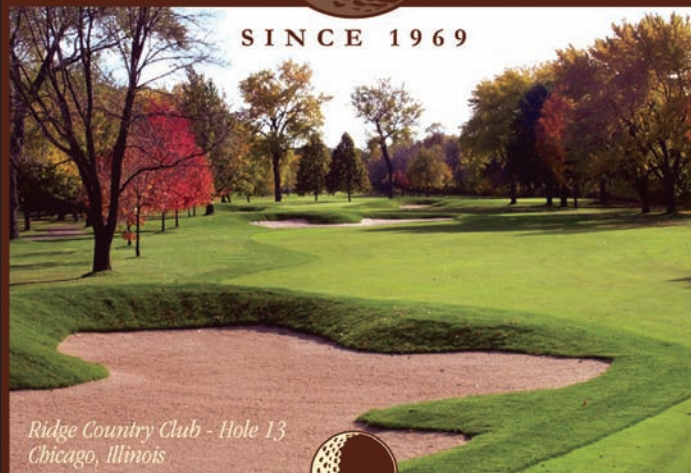
Nobody Cares More About Your Sand



Waupaca Sand & Solutions
715-258-8566
www.WaupacaSand.com

HOLLEMBEAK CONSTRUCTION INC.

SINCE 1969



*Ridge Country Club - Hole 13
Chicago, Illinois*

Golf Course Construction • Renovations • Bunkers
Clearing • Feature Grading • Shaping • Drainage
Tee and Green Construction • Cart Paths • Grassing
Shoreline Stabilization • Pond Construction and Dredging
Laser Tee Leveling • GPS Golf Course Mapping

P.O. BOX 103 • BIG ROCK, IL 60511 • 630-556-3891

This green has been a great test site; it was maintained at .095" with a fixed-head Toro 1000 walking greens mower during 2009 and 2010. Diseases have routinely gone untreated. The challenging growing conditions in 2010, combined with ultra-low mowing heights and minimal inputs applied, generated unique data relative to today's demands. Soil organic matter (OM) data was also collected comparing %OM from each cultivar. Differences were found. To our surprise, cultivars with high shoot density didn't necessarily generate more OM. Rarely are turfgrass test plots in use 14 years after planting and still providing useful and interesting data!

2003 NTEP Putting Green Trial

This trial was planted in September 2003 on native soil (silty clay loam) at the University of Illinois Landscape Horticulture Research Center in Urbana, in 5' x 5' plots replicated 3 times. The cultivars were maintained at 0.125". They received irrigation and pest controls as necessary. There were 26 entries in this trial. The ratings of the 6 velvet bentgrasses are not included in Table 2, due to poor performance (the U. of I. turf program does not recommend planting velvet bentgrass in Illinois). The top statistical quality performers in this trial were Tyee, MacKenzie, 007, Shark, Cobra 2, and Declaration (Table 2). Tyee and MacKenzie led this group in quality and summer density ratings, but lacked the darker green color and early spring greenup of other tested grasses (Table 2). Additional information about this trial can be found in the July 2008 issue of *On Course* (Voigt, 2008). Somewhat surprisingly, Penn A-1 did not perform well in this trial, after its high ranking in the 1997 On-Site trial.

(continued on page 9)

Table 2.
Mean quality performance,
genetic color, spring greenup,
and summer density (2004 – 2007)
of 20 creeping bentgrasses in Urbana in
the 2003 NTEP putting green trial.

CULTIVAR	SPRING GREENUP	GENETIC COLOR	SUMMER DENSITY	QUALITY
Tyee	5.2	6.3	8.3	7.2
MacKenzie	4.9	5.7	8.1	7.1
007	5.6	6.1	7.9	6.8
Shark	4.7	6.1	8.0	6.8
Cobra 2	4.9	6.8	7.2	6.7
Declaration	5.6	6.0	7.9	6.4
Independence	5.1	6.2	7.2	6.2
Kingpin	5.8	6.4	7.3	6.2
Authority	5.0	6.0	7.6	6.1
T-1	6.4	7.9	7.6	6.1
Bengal	5.7	6.1	7.1	6.0
Memorial	5.3	6.2	7.0	6.0
CY-2	3.9	5.7	7.9	5.9
LS-44	5.2	6.6	7.3	5.7
13-M	5.4	6.0	6.4	5.6
Alpha	5.1	6.8	6.9	5.6
Benchmark DSR	5.3	6.3	7.2	5.2
Penn A-1	5.6	6.3	7.1	5.1
Pennlinks II	5.1	6.0	5.1	5.1
Penncross	4.7	5.8	4.3	3.8
LSD 0.05	1.5	0.9	1.2	1

Table 3.
2009-10 spring greenup, color, and turf quality ratings of
creeping bentgrasses in 2008 NTEP On-Site Creeping Bentgrass trial
at North Shore Country Club.

CULTIVAR	2009 GENETIC COLOR	2010 GENETIC COLOR	2009-10 MEAN GENETIC COLOR	2009 SPRING GREENUP	2010 SPRING GREENUP	2009-10 MEAN SPRING GREENUP	2009 MEAN QUALITY	2010 MEAN QUALITY	2009-10 MEAN QUALITY
V8	5.7	6.3	6.0	4.3	5.7	5.0	6.7	7.1	6.9
PST-OJO	4.0	5.7	4.9	5.0	5.3	5.2	6.4	7.2	6.8
LTP-FEC	6.3	7.0	6.7	4.0	6.3	5.2	6.7	6.8	6.8
MVS-AP-101	6.0	6.3	6.2	5.3	6.0	5.7	6.2	7.1	6.7
SRP-1GMC	5.0	6.3	5.7	4.7	5.3	5.0	6.3	7.0	6.7
Declaration	6.3	6.3	6.3	4.3	6.7	5.5	6.2	6.8	6.5
Pin-Up	5.7	6.7	6.2	5.3	5.7	5.5	6.2	6.5	6.4
Authority	5.7	6.7	6.2	4.7	6.0	5.4	6.2	6.3	6.3
A08-TDN2	5.3	6.7	6.0	4.7	5.7	5.2	5.8	6.6	6.2
SRP-1BLTR3	5.0	6.3	5.7	4.3	5.0	4.7	6.0	6.1	6.1
AFM	5.0	6.0	5.5	4.7	6.0	5.4	5.5	6.5	6.0
Penn A-1	6.0	7.0	6.5	4.7	4.7	4.7	6.0	6.0	6.0
Alpha	6.3	7.0	6.7	4.3	6.0	5.2	5.5	6.1	5.8
T-1	7.3	7.3	7.3	4.0	5.7	4.9	5.3	6.2	5.8
L-93	6.7	7.0	6.9	4.7	4.0	4.4	5.1	5.7	5.4
Penn A-2	6.3	7.0	6.7	4.0	4.0	4.0	4.2	5.6	4.9
Penncross	5.7	7.0	6.4	5.7	3.7	4.7	4.6	4.5	4.6
LSD 0.05	1.4	0.9		2.7	1.3		1.1	0.6	

SUPERCHARGED BENTGRASS

With Yellow Jacket® Enhanced Seed Coating



SUPERCHARGED BENTGRASS WITH YELLOW JACKET®

Bentgrass coated with Yellow Jacket® germinates and establishes better than uncoated seed. The secret is better utilization of available water. This is due in large part to ZEB®, a key component of Yellow Jacket.

ZEB® is a super absorbent technology that can hold 600 times its own weight in water. Yellow Jacket acts like a sponge around the seed, holding water and nutrients for the seed to draw on as needed for germination.

The Yellow Jacket Advantage

- Improves handling of small seed
- Provides moisture during seed germination
- Improves establishment
- Reduces need for frequent watering during establishment
- Absorbs and releases nutrients to seedling

Many labels may contain Zebra. Zebra is a registered trademark of Pennwoods Golf. ZEB® is a registered trademark of ZEB® Technology, Inc.



BARENBRUG
Great in Grass®
www.barusa.com

PROGRO
SOLUTIONS
815.747.6024
progro-solutions.com

The Power Of Value.



Get real traction in your disease control program with the powerful combination of quality and value in new Tebuconazole 3.6F from Quali-Pro. You know Tebuconazole delivers fast-acting, long-lasting preventative and curative control of major turf diseases, including dollar spot, brown patch, anthracnose, snow molds and more. Course quality rules and Quali-Pro puts you in control with new Tebuconazole 3.6F. To learn more, call Doug Suttor at 616-403-3983 or visit **quali-pro.com**.

QUALI-PRO

Quality Turf & Ornamental Products

©2011 Quali-Pro. Quali-Pro is a registered trademark of MANA. Always read and follow label directions.

2008 On-Site Trial at North Shore Country Club

In September 2008, the most recent of these trials was planted at North Shore Country Club, again on a newly constructed, short-game, practice putting green with a sand-based rootzone. Due to poor growing conditions and slow bentgrass coverage, the plots were overseeded in April 2009. Nineteen bentgrasses were included in the trial. They were planted in 5' x 5' plots, replicated three times (Table 3). The plots are maintained at 0.125". Five additional high-performing bentgrasses from previous trials were added to the official NTEP test (Table 4) in order to compare their performance with the official entries. Two velvet bentgrasses are in the official trial, but are removed from Table 3 due to extremely poor performance. The trial is scheduled to end following the 2012 growing season.

After two years, most of the top performers are experimental types (Table 3). While it's too early to make recommendations, 007 and Declaration are performing well in the current study, as they did in the 2003 trial. As in the 2003 trial, Penn A-1 has dropped in rank from its previous performance in 1997. As in the past, Penncross ranks lowest in turf quality.

Table 4.
2009-10 mean spring greenup,
color, and turf quality of
creeping bentgrasses growing
with (but not officially included in)
2008 NTEP On-Site Creeping Bentgrass trial
at North Shore Country Club.

CULTIVAR	SPRING GREENUP	COLOR	TURF QUALITY
007	5.3	6.8	6.7
CY-2	4.5	5.7	5.9
Mackenzie	4.8	6.2	6.0
Penn A-4	4.7	7.2	6.2
Tyee	5.3	6.0	6.4

Final Thoughts

Using the results from these trials can guide you in selecting creeping bentgrasses for future plantings. Overall, Penn A-1 and Penn A-4 are still performing well on the 1997 green. Tyee did well in the 2003 trial and continues to perform well in the 2008 trial. This is also the case for Declaration and 007. It appears that the quality of the commercially available creeping bentgrasses continues to improve. New varieties lead in performance as new trials are developed. Thus, the future for creeping bentgrasses looks strong.

That written, we believe that the best research is local and the best way to evaluate new putting green bentgrasses is to grow them on your own site. In that way you can test performance under your management and growing environments. If at all possible, choose several of the top performers and evaluate them on a practice green prior to planting. Select the grass that meets your performance and comfort levels. **-OC**

References

- Voigt, T. 2008. Four years of testing yields interesting results in bentgrass trials. *On Course*. July. 62(3):9-13.
- Voigt, T., D. Dinelli, B. Branham, R. Kane, and P. Vermeulen. 2006. Results from a long-term putting green cultivar trial. *Golf Course Management*. April. 74(4):97-103.
- Voigt, T., D. Dinelli, B. Branham, R. Kane, and P. Vermeulen, Paul. 2005. Creeping bentgrass cultivars in the upper Midwest: Quality and rate of annual bluegrass invasion. *USGA Turfgrass and Environmental Research Online*. November 1. 4(21):1-7.
- Voigt, T. and D. Dinelli. 2004. A final report: The NTEP putting green at North Shore Country Club. *On Course*. February. 57(9):15-17, 19-20.

A great
investment....
In your
investment.

MARTIN DESIGN
Golf Course Architecture

335 N. River Ln. Suite 201, Batavia, Illinois 60510

630-482-2532

www.mdpltd.com



"I'll make dollar spot pay."



"Even the best turf can fall victim to disease. But with **Honor® Intrinsic™ brand fungicide**, I won't go down easily. On top of unsurpassed disease control, research shows that **Honor Intrinsic's plant health benefits** give me a better root system so I can stand up to stresses like drought and moisture events, extreme temperatures, and aerification—better than ever."

Intrinsic brand fungicides don't just fight disease; they give turf the resilience to endure stress. Find out more by contacting Randy Lusher, 630.810.1832, randy.lusher@basf.com.



The Chemical Company

*Not registered in California.
Always read and follow label directions. © 2011 BASF Corporation. All Rights Reserved.

THE LITTLE GIANT RTV500

**Starts quicker.
Runs quieter.
Stops smoother.**

The new Kubota RTV500 compact utility vehicle has all the comfort, technology and refinements of a larger utility vehicle. Available in Kubota orange and Realtree® camouflage, the four wheel drive RTV500 is ready for work or play. Visit your local Kubota dealer to test drive the only utility vehicle of its kind.



Martin Implement, Inc.
18405 115th Avenue
Orland Park, IL 60467
(708) 349-8430



www.kubota.com

*Realtree is a registered trademark of Jordan Outdoor Enterprises, Ltd.
© Kubota Tractor Corporation, 2008



See how equipment and
agronomics can work together.

Only John Deere Golf offers both a full selection of golf maintenance equipment and soft goods from top name brands. Plus advice on how to pick the best of each for your course. Call us today.



Think Ahead.

Equipment Sales:
J.W. Turf, Inc. Hampshire, IL
847-683-4653

Agronomic Sales:
Chicago South: Paul Yerkes,
630-514-9373
Chicago North: Charles Hill,
630-768-9275