#### **NEW TORO ROTOR**

The new Toro TR70XT rotor gives sportsturf managers flexibility and watering precision by offering a 5-in. pop-up to clear tall grasses, belowgrade installation, and a radius from 42-77 feet. The debris-resistant TR70XT 1-in. rotor adjusts in only seconds with a twist of the adjustment band. It also offers X-Flow shutoff device, which turns off sprinkler flow for dry maintenance or partial installations, and TruJectory adjustment, which enables you to adjust the spray anywhere from 5-25 degrees to correct for trees, fight the wind or water slopes. Toro Irrigation/800-348-2424

For information, circle 089 or see http://www.oners.ims.ca/4569-089

#### NEW PRODUCT!

#### **FIXED PATTERN NOZZLES**

Hunter Industries introduces Pro-Spray Fixed Pattern Nozzles, available in the most popular arc patterns and featuring female-threaded design for compatibility across most brands. Pro-Spray nozzles are color-coded for quick and easy radius identification (brown, 8 ft.; red, 10 ft.; green,

> 12 ft.; black, 15 ft.; and gray, 17 ft.). The nozzles also minimize wind drift by emitting at the optimum droplet size: large enough to avoid the problems of misting, small enough to be provide even distribution. Hunter Industries/760-744-5240

For information, circle 091 or see http://www.oners.ims.ca/4569-091



#### **3-INCH ICV**

Hunter Industries has a new 3in. ICV, supplied as a combination global/angle model for easy installation in all configurations. Hunter's ICV series now has 1-, 1 1/2-, and 2-in. globes as well as the new size. Series can now control flows from 0.10 to 300 gpm. All valves include optional Accu-Set pressure regulators, which can be added in the field without tools. Hunter Industries/800-733-2823 For information, circle 093 or see http://www.oners.ims.ca/4569-093



TOOLMAKER

to the

# Wide World Of Sports

Available through leading Distributors around the world

MIDWEST RAKE COMPANY LLC

800-815-7253

*STMA MLB / NFL Field Seminar Sponsor* 

Circle 181 on card or www.oners.ims.ca/4569-181



VANDERBILT





# Making Its Mark!

### FieldLazer<sup>™</sup> sets a new standard in sports field marking.

#### The revolutionary NEW FieldLazer features:

- Airless technology for spraying higher concentrations of paint, delivering brighter, longer-lasting lines.
- Siphon paint from its original container, eliminating the hassle of cleaning tanks and pots.





 Tall wheel cart is lightweight and rolls easily over rough terrain.



Amazing versatility in a user-friendly package.
 Patent pending





Call us at 800.690.2894 for more information, or visit us at www.graco.com Circle 135 on card or www.oners.ims.ca/4569-135 ©2004 Graco Inc. Form No. 336723 Rev. A 12/04

# LANDSEXOC Design, Selection, Implementation and Maintenance

#### Attend Online or Onsite, the Choice is Yours! Satisfying CEU requirements just got easier March 23, 2005 in Las Vegas

#### **Registration Form**

LandsExpo West • March 23, 2005 Texas Station, Las Vegas, Nevada www.GreenIndustryEducation.com

Please complete and mail completed form with payment to Unlimited Access Co., 7100 Sunnyslope Avenue Van Nuys, CA 91405 or fax to 818-764-3363

Name		
Company		
Address		
City	State	Zip
Phone	Fax	
Email		

Online Conference (\$75 before 2/1/05, \$95 after 2/1/05)

On-site Conference (\$120 before 2/1/05, \$140 after 2/1/05)
 On-site Conference Group of 3+ (\$100 before 2/1/05 only)
 On-site Exhibits Only (\$30 before 2/1/05, \$50 after 2/1/05)
 Exhibits Only includes (1) continental breakfast and (1) buffet lunch

#### Select 3 Sessions

- □ 1) Tree Selection-New Varieties 7:00 a.m. to 9:00 a.m. CEUs Applied For: ASLA, CCA, DPR, GCSAA, ISA
   □ 2) Pesticides on Turfgrass - 8:00 a.m. to 10:00 a.m.
- CEUs Applied For: CCA, DPR, GCSAA 3) Assessing Plant Stress - 7:00 a.m. to 9:00 a.m.
- CEUs Applied For: CCA, DPR, GCSAA, ISA 4) Irrigation Design - 8:00 a.m. to 10:00 a.m.
- CEUs Applied For: ASLA, CCA, GCSAA, IA 5) Tree Health - 10:00 a.m. to 12:00 noon CEUS Applied For: ASLA, CCA, GCSAA, IA
- CEUs Applied For: CCA, DPR, GCSAA, ISA 6) Turfgrass Selection - 11:00 a.m. to 1:00 p.m. CEUs Applied For: ASLA, CCA, DPR, GCSAA,
- 7) Soil issues 10:00 a.m. to 12:00 noon CEUS Applied For: CCA, DPR, GCSAA, ISA
- 8) Irrigation Efficiency 11:00 a.m. to 1:00 p.m. CEUS Applied For: CCA, GCSAA, IA
- 9) Pros & Cons of Micro Injections 1:00 p.m. to 3:00 p.m. CEUS Applied For: CCA, DPR, GCSAA, ISA
- 10) Evaluating and Amending Soil 2:00 p.m. to 4:00 p.m. CEUs Applied For: CCA, DPR, GCSAA
- 11) Soil Erosion Control 1:00 p.m. to 3:00 p.m. CEUS Applied For: CCA, GCSAA
- 12) Irrigation with Reclaimed Water 2:00 p.m. to 4:00 p.m. CEUs Applied For: ASLA, CCA, GCSAA, IA, ISA

-		10.0			
Day	/mer	ut la	nto	rma	tion
ra	linei			IIIa	uoi

Check A m Ex Discover Visa / MC
 Number Attending, 
 Total Fee

Note: There are no refunds, registration can be transferred if you are unable to attend. Unlimited Access Co. will show on your statement as credit merchant.

Cardholde	

Card #\_\_\_\_\_

Expiration Date\_\_\_\_\_

Signature\_

Onsite Conference include: session handouts, entrance to exhibits, (1) continental breakfast, (1) buffet lunch

Zip

Call the Texas Station at 800-654-8804 for hotel reservations - you are with the LandsExpo group code TCIUNLM

# Now there is a choice!

The latest internet technology provides even dial-up online attendees virtually all on-site features!



# www.GreenIndustryEducation.com • 877-964-6222

Circle 185 on card or www.oners.ims.ca/4569-185

**Sports Turf Managers Association of Arizona:** For information on the Chapter, or upcoming events, contact Chris Calcaterra at e-mail: chrisc@peoriaaz.com or tel. 623-412-4231 or Bill Murphy, at e-mail: bmurphy@ci.scottsdale.az.us or 480/312-7956.

Chesapeake Chapter STMA (formerly called Mid-Atlantic Athletic Field Managers Organization - MAFMO Chapter STMA): For information on the Chapter or other pending activities, call the Hotline at 301/495-5522 or e-mail Nick Gammill, CSFM, at ngammill@american.edu.

**Colorado Sports Turf Managers Association:** For information on the Chapter or upcoming activities, visit the Chapter's website at www.CSTMA.org or call the CSTMA Chapter Hotline at 303/346-8954, or contact Chapter President Ryan Jensen at 303/464-5687 or rjensen@ci.broomfield.co.us.

Florida #1 Chapter: For information on the Florida #1 Chapter, contact John Mascaro at 954/341-3115 or STMA@turf-tec.com.

Gateway Chapter Sports Turf Managers Association: For information on the Chapter or upcoming events, call Mike Krone, Missouri Baptist College at 314/392-2328 or e-mail krone@mobap.edu.

Georgia Sports Turf Managers Association: For information on the Chapter or upcoming events, contact Skip Kirby at 770/928-1580 or e-mail skip@sportsturfmanagement.com.

The Greater L.A. Basin Chapter of the Sports Turf Managers Association: For information on the Chapter or pending events, call Eric Johnson, University of Southern California at 213/821-5654 or e-mail ejohnson@busaff.usc.edu.

Illinois Chapter (formerly Midwest Chapter) STMA: What was formerly the Midwest Chapter officially became the Illinois Chapter effective November 4, 2004. The Illinois STMA is holding a networking meeting Thursday, February 3rd, 4:30-6:30 PM. Come and join fellow sports turf managers for an informal opportunity to network and socialize. Meeting will be at Gator's Pub & Grill North, 1719 N. Rand Rd, Palatine. For information on the Chapter see http://mcstma.org/ or call chapter secretary Libby Baker at 847/263-7603 or e-mail Bake60ft6in@aol.com.

chapter news

**Iowa Sports Turf Managers Association:** For information on the Chapter or upcoming activities, contact Jeff Wendel of The Turf Office at ph. 515/232-8222 or fax 515/232-8228 or e-mail Jeff@iowaturfgrass.org.

Keystone Athletic Field Managers Organization (KAFMO/STMA): The Eastern PA Turf Conference and Trade Show will be January 11-13, 2005 in Valley Forge. Athletic Field sessions will take place January 13. Contact www.paturf.org or call 814/355-1912 for more information.

For information on the Chapter or upcoming events, contact Dan Douglas, Reading Phillies Baseball Club at tel. 610/375-8469, ext. 212 or by e-mail to: kafmo@aol.com.

Kentucky Sports Turf Managers Association: For more information, check out the website at www.kystma.org or contact Tom Nielsen at

### **EnkamatPlus**<sup>®</sup>

**Sideline Turf Protection** 



- The best sideline protection for your athletic field.
- Three-dimensional matrix will not crush beneath your heaviest linemen.
- Heavy duty fabric lets field breathe and water penetrate through.
- · Perfect for multi-use fields.
- Reusable season after season.
- One time investment saves big bucks in grass repair.
- Just the right size for your sideline: 16'x150'.



We're The Thin Line Between Comfort and Catastrophe





1.800.387.5808 www.covermaster.com

Circle 161 on card or www.oners.ims.ca/4569-161

# chapter news

TNielsen@batsbaseball.com or Donnie Mefford at dbmeff00@email.uky.edu or call him at 859/257-1451.

#### Michigan Sports Turf Managers Association

(MISTMA): For information on the Chapter or pending events, contact MISTMA Headquarters at 517/712-3407 or e-mail Amy Fouty, CSFM, Michigan State University at fouty@ath.msu.edu or go to www.mistma.org to visit the Chapter's website.

#### Minnesota Chapter

STMA: For information on the Chapter, or upcoming events, visit the Chapter website at

www.mstma.com or contact Jeff Hintz, Bethel College & Seminary, St. Paul, at 651/638-6075 or email: j-hintz@bethel.edu.

MO-KAN Sports Turf Managers Association: For information on the Chapter or upcoming events, e-mail Paul Hecker at phecker@olatherks.org.

Northern California Chapter of the Sports Turf Managers Association: For information on the Chapter, or pending events, call Janet Gift at 530/758-4200 or email Emory Hunter at emhunter@usa.net.

Nebraska Sports Turf Managers Association: For information on the Chapter or upcoming events, call Loren Humphrey at: 402/461-2356 or e-mail to Ihumphrey@cityofhastings.org.

Sports Field Managers Association of New Jersey: For information on the Chapter or upcoming events call SFMANJ at 908/730-7770, e-mail HQ@sfmanj.org or visit the Chapter website at www.sfmanj.org.

Ohio Sports Turf Managers Association (OSTMA): Please join us on February 28 & March 1 for OSU's Sports Turf Short Course at Columbus Crew Stadium in Columbus. To register call 614/292-8571 or go online to www.pware.com/2753. For information on the Chapter, call OSTMA Headquarters at 888-824-9805 or 419-824-9805 or Boyd Montgomery, CSFM, at 419-885-1982 or visit the Chapter's website at www.ostma.org.

Pacific Northwest Sports Turf Managers Association: For information on the Chapter or upcoming events, contact Bob Christofferson at 206/346-4218 or bchristo@mariners.org.

Southern California Chapter: For information on the Chapter or pending activities, call the Chapter Hotline at 888/578-STMA (578-7862) toll free in Southern California or 760/226-8873 or Michael



Tarantino at 858/679-2526 or by e-mail: MTarantino@powayusd.com.

South Carolina Chapter of STMA: For information on the Chapter or upcoming events, contact Dr. Trent Hale at 843/662-3526 ext. 206, or by e-mail at tchale@clemson.edu or visit our website at www.scstma.org.

Texas Turf Managers Association: For more information contact the TXSTMA office at the Phone/Fax number: 866/TXSTMA1 (866-897-8621) or e-mail T.J. Thompson, Treasurer, at: TXturfmanager@prodigy.net.

Tennessee Valley Sports Turf Managers Association (TVSTMA): For information on the Chapter or upcoming events, call Chapter President, Bob Elliott, Tieco, at 800/239-9547 or Glenn Lucas at 800/837-8062; e-mail to Glenn@tvstma.org, or visit the Chapter's website at www.tvstma.org.

Virginia Sports Turf Managers Association: The Chapter is holding their Annual Membership Meeting January 12, 2005 during the Virginia Turfgrass Council's Conference and Marketplace. For information on the Chapter or other upcoming events, contact Bob Studholme, Fairfax County Park Authority, via e-mail at Robert.Studholme@FairfaxCounty.gov or at 703/324-8590.

Wisconsin Sports Turf Managers Association: For information on the Chapter or other pending events, contact Chris Brindley at 715/346-3622 or cbrindle@uwsp.edu.

#### Forming Chapters:

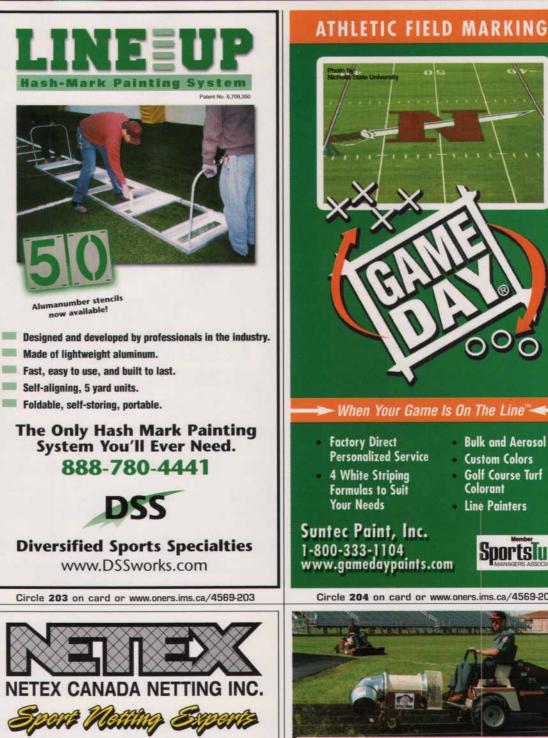
North Florida STMA Chapter: For information on the newly forming North Florida Chapter, contact Mark Clay at 904/633-6116 or Jay McCord at 904/448-2583.

#### USED EQUIPMENT

Nation's #1 Distributor has trade-in's and demo's for greens, tees, fairways and sportsfields

# TERRA SPIKES AND MORE

KETPLAC





**Bulk and Aerosol** 

**Custom Colors** 

Golf Course Turf Colorant

Line Painters



Circle 205 on card or www.oners.ims.ca/4569-205

tor greens, tees, taitways and sportshelds				
MATIONAL	NATIONAL MOWER	TURFCO*		
	MASSEY FERGUSON	🗱 Wiedenmann		
U'03	G6/160 TERRA SPIKE 63' W/W. 0-12' DEPTH	— \$12,900		
U'99	305.200 VERTI-DRAIN 80" W/W, 0-16" DEPTH	\$6,995		
U'97	305.200 VERTI-DRAIN 80" W/W, 0-16" DEPTH	— \$3,495		
U'02	RD150, ROTADARION 60" W/W, MESH ROLLER	— \$10,800		
U'02	MF1440 4 W/D, 40 HP, T/T 575 HRS	RES. — \$14,400		
U'02	7316 VERTI-DRAIN 64" W/W, 0-12" DEPTH	— \$12,500		
D'03	NATIONAL 8400 TRIPLEX F 16 H.P.	REEL MOWER, — \$11,900		
U'03	METE-R-MATIC III TOPDRESSER	— \$6,350		
U'03	7117 MUSTANG VERTI-DR 68" W/W, 0-6" DEPTH	AIN — \$12.800		

**COMMERCIAL TURF & TRACTOR 800-748-7497** www.commercialturfandtractor.com

> HOME OF BRYANS BLEND BBQ SAUCE www.bryansblend.com

Circle 123 on card or www.oners.ims.ca/4569-123

#### STRAIGHT LINES IN LESS TIME



### Field Markers, Accessories & **Sports Field Stencils**

· Easy operations, maintenance, and transport . "Floating" paint shoe for sharp lines no matter the terrain Two opposing nozzle bracket design for single pass striping • Industrial strength 12v diaphragm pumps • Ergonomic design for operating ease and performance • USA made - powder coated steel frame and corrosion resistant parts

> 1-800-553-6275 (402) 844-4660 • Fax (707) 276-1061 www.AthleticFieldMarker.com

Tru Mark Athletic Field Marker • PO Box 706, Norfolk, NE 68702

Circle 124 on card or www.oners.ims.ca/4569-124 http://www.sportsturfmanager.com • STMA

**IRU MARK** 

Athletic Field Marker

Circle 202 on card or www.oners.ims.ca/4569-292

Toll Free 800-936-6388 Fax 604-946-8690

Canada's # 1 sport netting supplier

**ROPE BORDERED NETTING SPECIALISTS** 

NYLON BASEBALL BARRIER NETTING

BASEBALL CAGES

FREE STANDING STEEL POLES

DESIGN AND STRUCTURAL ENGINEERING WIND SCREEN AND TOURNAMENT FENCING

FOOTBALL FIELD GOAL NETS

GOLF HOCKEY SOCCER

### MARKETPLACE



The Shindaiwa EB630 is the ultimate backpack blower. Reduces clean-up time by 50%.

- Incredible output: 613cfm, 201 mph
- Giant airfilter extends run times
  Ideal for toughest blowing jobs

We offer 4 commercial-grade models from the hand-held EB240S up to our most powerful blower, the EB630. To find a dealer nearest you, call (800) 521-7733, or visit www.shindaiwa.com



Shindaiwa Inc. 11975 SW Herman Rd. Tualatin, OR 97062

Circle 188 on card or www.oners.ims.ca/4569-188

### CHAIN LINK FENCE GUARDS



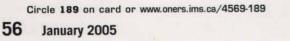
Fence Guard<sup>™</sup> protective covers for chain link fencing from Partac Peat Corp. are available in six colors—safety yellow, dark green, red, white, blue, and orange—as well as two grades—premium and standard. These UV-resistant, polyethylene covers protect players from injuries and provide a distinctive look to your fencing.

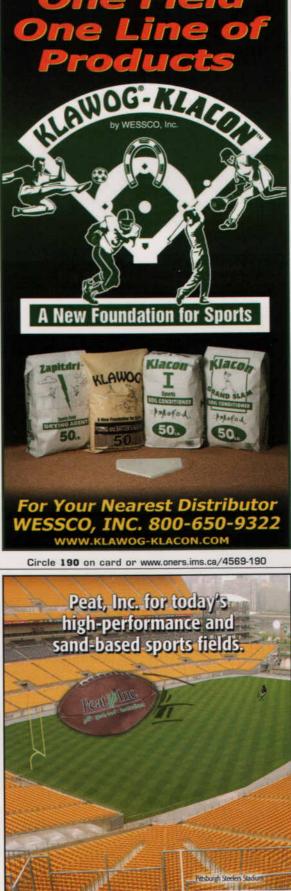
Fence Guard<sup>™</sup> comes in cartons of ten 8-ft. sections with fifty 8-in. UV-resistant ties for securing every 2 feet to fence. With a 5-year manufacturer's limited warranty.

For safety and uniform appearance, you should remove crowns from the tops of fence posts so that the entire fence top is covered; ends can be butted or overlapped, and the product is easy to install.

Other styles also available, as well as windscreen, wall padding and portable safety fencing.

PARTAC<sup>®</sup>/BEAM CLAY<sup>®</sup> 800-247-2326





"A little Peat Inc. goes a long way!"



golf • sports turf • horticulture Organics You Can Trust

A Minnesota-based peat company servicing worldwide.

Peat, Inc. • Elk River, MN 55330 www.peatinc.com

1-800-441-1880 or 763-441-8387

Circle 191 on card or www.oners.ims.ca/4569-191



Simple, Well-built Products TOLL FREE 1 • 888 • 693 • 2538

Circle 192 on card or www.oners.ims.ca/4569-192

### **Jaydee Drive Liner**

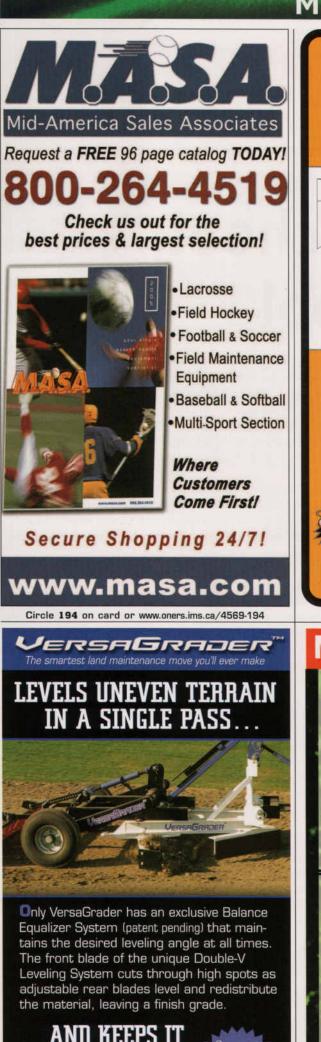


The Jaydee Drive-Liner is a self-propelled riding line-marker featuring a 13.5 h.p. Briggs & Stratton engine, along with a 3.3 gallon remote fuel cell, a 35 gallon paint tank that carries enough marking material for a complete game field, or several practice fields. The 2 gallon flush tank cleans the discharge lines for work-breaks, travel or overnight. Center/side-marking sprayshields are always operator visible. A nearly zero degree turning radius reduces or eliminates back and turning maneuvers.

**Jaydee Equipment Company** 

202 East Joliet Highway, Box 278 New Lenox, IL 60451-0278 TOLL FREE: 1-800-443-3268 jaydee@theramp.net • www.jaydeeeqco.com

Circle 193 on card or www.oners.ims.ca/4569-193 SPORTSTURF • http://www.greenmediaonline.com





Circle 125 on card or www.oners.ims.ca/4569-125 http://www.sportsturfmanager.com • STMA



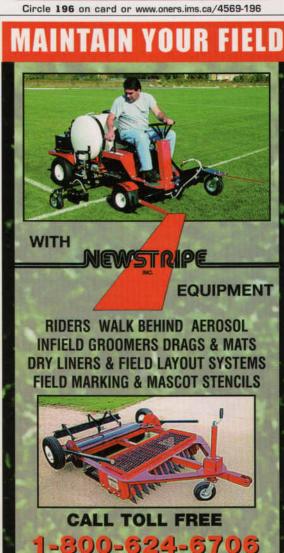
ARKETPLACE

Beacon has standard batting cage products or custom solutions designed for difficult situations! Best of all, our design work is always free of charge. Send us a simple sketch of what you have and we'll design an affordable, qualitybuilt solution, inside or out.

Beacon Athletics is the batting cage expert. Call us today!

**TRAINING & FIELD EQUIPMENT EXPERTS** 

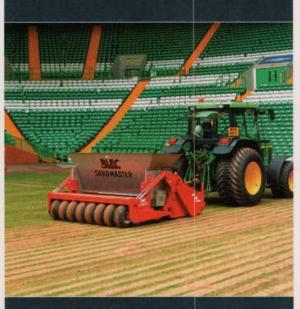
Visit us online or call anytime!



WWW.newstripe.com Circle 195 on card or www.oners.ims.ca/4569-195

1700 Jasper St., #F • Aurora, CO 8001





SEEING IS BELIEVING



864.225.3666 • www.blecusa.com STMA Booth #1109

Circle 198 on card or www.oners.ims.ca/4569-198



Grounds Maintenance Services Groundskeeper Management Academy



What can I expect from the Groundskeeper Academy?

- A pleasant learning atmosphere with knowledgeable teachers and experienced grounds personnel.
- A sharing of ideas and information between instructor and participants, as well as among participants.
- This academy setting will feature new experiences, a quality education, a formidable work load and a fun climate: all with groundskeeping being the common denominator.

LOCATIONS 2005 Feb. 1-3 — Stuart, FL Feb. 22-25 — Millington, TN June 20-23 — Charlotte, NC

Books and Videos Available! For pricing, academy info and more visit our web site at <u>www.gmsforsportsfields.com</u> **1-800-227-9381** 

Circle 197 on card or www.oners.ims.ca/4569-197 SPORTSTURF 57

# Mowing rules: old school, new school, no school

everal sport turf managers have inquired about proper mowing heights since their coaches requested lower mowing, usually to speed up the field. To answer this I give three basic mowing rules and then ask a lot of questions. Here are a few general mowing rules and actual examples from your fellow sports turf managers to show how mowing strategies need to change to fit specific needs:

In general the **one third mowing rule** suggests that you should not remove more than one third of the existing leaf canopy at each mowing, i.e., for a mower set at 2 inches mow when the grass gets to a height of 3 inches to provide a 1-inch clipping. The 1/3 rule was based on canopy removal studies that noted a decrease in rooting when more than 1/3 of the leaf volume was removed in a single event. It is interesting to note that the 1/3 rule was based on research using leaf volume and that for ease of interpretation it has evolved into a measure based on 1/3 of the mowing height. Either way the 1/3 rule is a good standard that reduces turfgrass scalping and root loss, yet it says nothing about mowing height strategy.

**Taller mowing provides deeper roots.** This rule is quite true and it has particular importance when dealing with heat and drought stress, especially in limited or non-irrigated situations. A taller mowing height provides canopy shade to cool the surface and deeper roots to survive drought. In non-irrigated situations raising the mowing height is advisable to survive summer stress.

In contrast, those with irrigation would be advised to maintain a consistent mowing height throughout all seasons. Raising the mowing height may have benefits but it also produces fewer shoots and less density. Within reason and as a rule, **shorter mowing increases shoot density and provides a better biomass-mat** barrier to keep players from contacting the soil. Shorter mowing usually requires more frequent mowing. If water is not limited then it is better to consistently train the grass for maximum density with shorter mowing rather than reducing density in the summer with taller mowing and then lower the mowing height just before autumn football.

Because leaf growth changes with fertilizer, water, and seasonal temperature I first fix the mowing height to match the sport, coach's expectations, and player ability. After agreeing on the height, and that's not always an easy task, develop a routine mowing frequency that does not violate the 1/3 rule and add some of your own ideas to make the field shine; here's how some of you have done it.

Northwestern University, Chicago, sand-based Kentucky bluegrass football field. Jeff Salmond, CSFM, has a strategy of maximizing turfgrass density and surface mat to prevent breakthrough and exposure of unstable sand. This field is typical of a high-end professional or college field. Jeff mows with a Toro triplex 2600 fairway mower and he is hoping to purchase the Sidewinder version so that he can side-shift the mower units and avoid wheel tracking when mowing yard line stripes. He mows Monday, Wednesday, and Friday without collecting clippings to keep up with the 1/3 rule. His mowing height varies between 1 3/8 to 1 1/2 inch from August through mid-October, and 1 1/4 inch at all other times.

He lowers the mowing height halfway through the autumn football season because the grass has worn some and slowed due to cold temperature. Lower mowing allows for some grass removal and a cleaner surface. From early spring through summer Jeff keeps the mowing height lower. "I like to train the grass for maximum density and keep it from getting too leafy and stringy. Once we've made the density during the spring and summer we raise the height back to the 1 3/8 to 1 1/2 range for the first half of the football season," he says.

This "new school" strategy is a good example of adapting old mowing rules into a sound strategy to fit the sport and coaches' desires. The "old school strategy" would have been to raise the mowing height during the summer to avoid stress and lower it in the fall for the football season. Since drought is not a factor in this situation, Jeff options for the frequent and shorter mowing rule that maximizes turf density.

John Netwal has a different mowing strategy for the STMA Soccer Field of the Year from North-Scott, IA. John's sand-based high school soccer field is always mowed at 5/8 inch with a National Triplex reel mower. His mowing frequency can range from daily to every 3 days depending on rate of growth.

"We use Primo to regulate growth, reduce the amount of clippings, and produce a thicker turf . . . without the Primo we would never be able to keep up with the mowing on our budget," he says. "Because the clippings are so small we can keep the mowing height low and still operate the mower faster which cuts down our mowing time."

This quality of mowing is not usually found at the high school level, but John has been one the leaders in bringing new rules to the old school. John has even been letting the football team use the soccer field for special events, now there's a switch.

I haven't forgot about you cool cats in the warm climate. Luke Yoder, Director of Field & Landscape Maintenance at San Diego's PETCO Park, showed me something I had never seen before and that was a baseball field with the infield mowed taller than the outfield.

"The Bull's-Eye Bermudagrass on this new field was first mowed at 7/8 inch but the surface was too slow for the Padres." After a season of fine tuning here's how Luke and the Padres play it: The game condition mowing height for the outfield is a 1/2 inch and the infield is 3/4 inch. At 3/4 inch the outfield was too tall and players complained of hanging up cleats in the surface that was too slow and soft for their level of ability. Luke altered the mowing strategy to remedy the surface without damaging the grass, in fact, he says the aggressive Bulls-Eye prefers it that way.

"They needed a faster and firmer surface that didn't hang up cleats. To get that we needed to drop the mowing height to 1/2 inch." He goes on to explain "mowing the aggressive Bermudagrass constantly at the same height allows the grass to get puffy and scalping occurs that makes the surface uneven and unsightly, so when the team is away for 7 days we drop the mowing height of the outfield to 3/8-inch and the infield to 1/2 inch."

They do this for 3 days to scalp off the puffy top of the Bermudagrass and allow new growth from below. "We raise the height back up to normal 4 days before they return. For a 14-day road trip we also have time to do some verticutting and topdressing."

Jeff Salmond, John Netwal, and Luke Yoder are three of your fellow sports turf managers that will be at the 2005 STMA gathering in Phoenix and they will be able to give you a first hand account of their mowing strategies.

Umpires and officials enforce rules of the game. Coaches, players, and athletic directors often influence the playing height of the field. But don't you ever forget that Mother Nature is the judge of all rules. Mow too short or too tall, not often enough or not at all, and she will make you pay with green you can't afford. These three wise men have figured it out.

**GUESTIONS?** Send them to Dave Minner at Iowa State University, 106 Horticulture Hall, Ames, IA 50011, or email dminner@iastate.edu. Or, send them to Grady Miller at the University of Florida, PO Box 110670, Gainesville, FL 32611, or email gmiller@mail.ifas.ufl.edu.

# Do it once. Do it right.



# **Multi-Flow Drainage Systems**

Use the best drainage product and you won't be returning to replace it. Multi-Flow systems are designed and built to last. Multi-Flow collects and carries water rapidly, and won't crush or block. You can't buy or build a better drainage system. Do it once. Do it right. Drain it with Multi-Flow.



Varicore Technologies, Inc.
 800-978-8007
 service@varicore.com
 www.varicore.com

Circle 187 on card or www.oners.ims.ca/4569-187