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with GreensSlicer®
Spring Tine Rake.**

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FEATURES and BENEFITS

- Synthetic Sports Turf Groomer works with all fill material currently used, in both wet and dry conditions.
- Patented brush design lifts turf fibers leaving them in a plush, upright position. Brushes move fill to low spots or depressions left after play.
- Synthetic Super Duty Blue Brushes retain their original shape, resist wear, and will not rot.
- GreensSlicer Spring Tine Rake consists of 3 rows of 28 tines spaced 7/8 inch apart for thorough coverage.
- Each row of tines may be adjusted to the desired level of aggressiveness.
- The GreensSlicer combs through the fill material, relieving compaction and assuring a soft, level playing surface.



Synthetic Super Duty Blue Brushes
Resist wear and will not deteriorate from moisture.



GreensSlicer Spring Tine Rake
3 rows of 28 tines.



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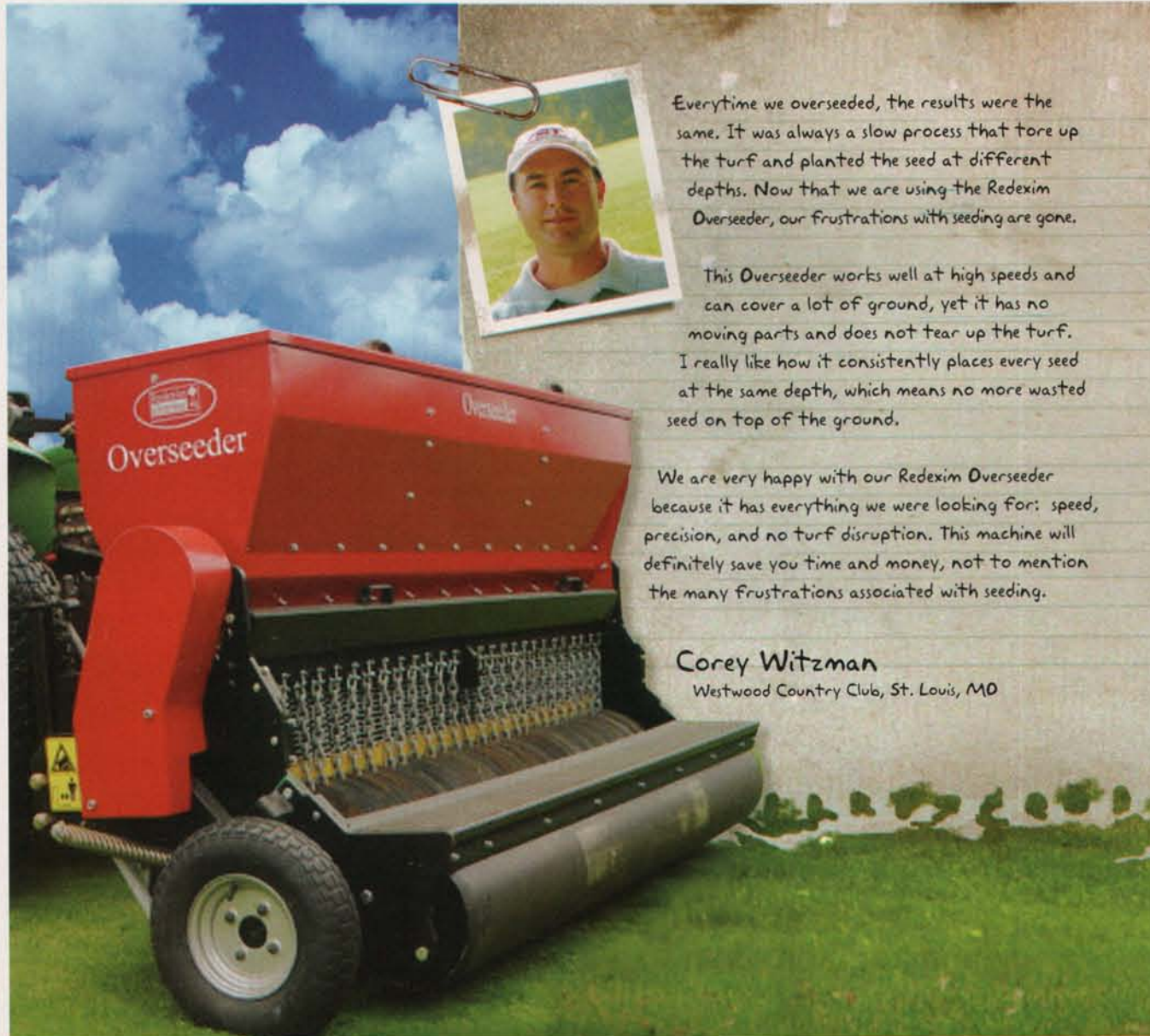




POLYTOUGH STENCILS

Ralph Newman, president of Newstripe, Inc. recently announced that 1/8-in. PolyTough stencils now carry a lifetime warranty. PolyTough stencils are designed to keep athletic fields and parking lots clearly and attractively marked. They are precision cut and lay flat so you will always get crisp, accurate markings. Letters, numbers, handicap symbols and arrows are kept in stock for immediate shipment. Plus, your company logo, school mascot or special wording can be custom cut to your specifications.

Newstripe, Inc./800-624-6706
For information, circle 055 or
see <http://www.oners.ims.ca/5064-055>



Everytime we overseeded, the results were the same. It was always a slow process that tore up the turf and planted the seed at different depths. Now that we are using the Redexim Overseeder, our frustrations with seeding are gone.

This Overseeder works well at high speeds and can cover a lot of ground, yet it has no moving parts and does not tear up the turf. I really like how it consistently places every seed at the same depth, which means no more wasted seed on top of the ground.

We are very happy with our Redexim Overseeder because it has everything we were looking for: speed, precision, and no turf disruption. This machine will definitely save you time and money, not to mention the many frustrations associated with seeding.

Corey Witzman
Westwood Country Club, St. Louis, MO

PROVEN GROUND

For more than 20 years, Redexim Charterhouse Overseeders have been known as the standard of quality in the sports turf industry through their innovative design, craftsmanship and heavy duty construction. Whether you want to seed nine fairways in a day or need the ability to seed and top dress at the same time, Redexim Charterhouse can outfit your business with the right machine for the job.



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NEW PRODUCT!

AUTOMATIC FIELD COVER

Matchsaver can cover a field with a waterproof tarp in 15 minutes, says the English manufacturer, beginning with the push of a button. Product is used by famous soccer clubs like Chelsea in London, Italy's Juventus, and Olympiakos in Greece. Chelsea's facilities manager, Chris Gleeson, says, "The speed and reliability of the system allows us to control the pitch conditions during heavy rain to within 30 minutes of kickoff. It only takes 15 minutes to take out and roll back."

Matchsaver/413-567-7921
For information, circle 054 or
see <http://www.oners.ims.ca/5064-054>



BROYHILL'S VACMATE

Broyhill's VacMate has a spring arm mounted suction hose that makes it ideal for cleanup in stadiums, parks & recreation, school districts, municipalities, residential, and commercial areas. The unit is a dedicated attachment to the TerraSport utility vehicle and has a high velocity fan driven by Honda 18-hp gas engine, with no refuse traveling through the impeller. The 8-in. suction hose is assisted by an electric power lift.

Broyhill/800-228-1003, x34
For information, circle 056 or
see <http://www.oners.ims.ca/5064-056>

SHINDAIWA EB240S

Fast and flexible, the EB240S is often quicker than a backpack from truck to task. Also a great choice when the operator is responsible for a number of small jobs rather than cleaning a large area. Features include lightweight, glass-filled nylon impeller; quick throttle response, fast acceleration (7900 maximum rpm) and light overall weight at only 9.2 pounds (w/o tubes).
Shindaiwa/800-521-7733
For information, circle 058 or
see <http://www.oners.ims.ca/5064-058>



JOHN DEERE BACKPACK BLOWER

The BP65LE backpack blower features a heavy-duty 64.7-cc John Deere M-Series low emission engine. This model features 190-mph air velocity and 630-cfm air volume at the end of the tube. Comfortable, padded backpack harness absorbs vibration for all-day comfort, and fully adjustable straps fit every size. Air jet pulls air over the user's back for cooler, more comfortable operation.

John Deere/800-537-8233
For information, circle 057 or
see <http://www.oners.ims.ca/5064-057>

FINN'S BARK BLOWER

The FINN Bark Blower has been known to expand outside of the mulching realm. A number of customers have found other ways to put the machine to work, such as applying compost, overseeding sports fields, applying salt to icy areas in the winter or even delivering topsoil to a rooftop garden six stories high.

The Bark Blower is available in sizes ranging from 6.5 cubic feet to 22 cubic yard capacities, providing a model tailored to any contractors' workload.

FINN Corporation/513-874-2818
For information, circle 059 or
see <http://www.oners.ims.ca/5064-059>



LITTLE WONDER VACUUM

Little Wonder's vacuum is top-loading to get bag completely filled, and is an all-terrain, all-debris unit with a cyclonic separator that reduces clouding and directs dust to ground level away from the user's face. Ninety-lb. bag capacity and 6-hp Briggs Intek engine.

Little Wonder/215-357-5110
For information, circle 061 or
see <http://www.oners.ims.ca/5064-061>

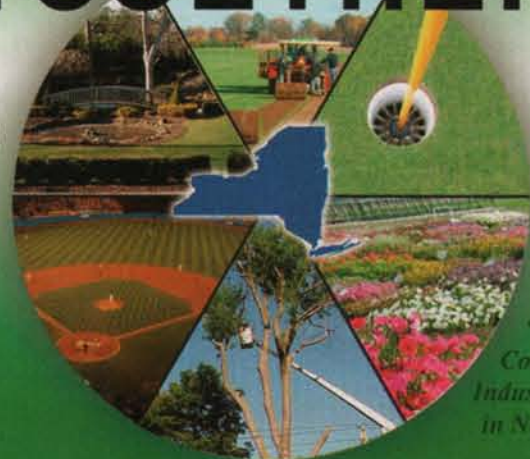
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No brown grass for Browns

BY JERRY ROCHE

"The main reasons for brown grass are adverse weather conditions, excessive wear and improper maintenance," said Joe Rimelspach, extension turfgrass pathologist at The Ohio State University.

During the Ohio Sports Turf Managers Association's 2005 field day and workshop in Cleveland June 28, Rimelspach told about 85 attendees that one of the best solutions for brown grass is to "incorporate genetically improved turfgrass"—which might include genetically engineered cultivars in the future. "They are great management tools," he said.

"What are expectations, yours and your client's, for the field, and what are the economics?" Rimelspach asked. "People who have to spend their money creatively are the best turf managers."

The meeting began and ended at Browns Stadium in downtown Cleveland, with a midday pit stop at the team's practice facility in Berea, a suburb southwest of the city.

During the morning session, held in a massive orange-and-brown game-day locker room, Rutgers University Director of Turfgrass Breeding Dr. William Meyer gave a speech titled "Cool-Season Turfgrass Selection and New Turfgrass Technology."

Chris Powell, Browns' head sports-turf manager, conducted on-site field tours at both sites.

Though the Browns restructured their front office and roster during the off-season, the team's playing fields are among the best. The 5-year-old turf at Browns Stadium was voted top bluegrass field in the North, Powell said, and the Berea fields have been voted the best practice fields in the entire NFL.

Yet Powell's life is not without complication.

"Sometimes I feel like I'm the captain of a sinking ship," he noted, "and I'm just trying to get the ship to the end of the season." His staff of six full-timers must split time between the stadium and the four practice fields in Berea, depending on the team's practice and NFL regular-season schedules. On occasion, the grounds crew is even called upon to scrub and disinfect the team's 60-yard indoor synthetic field.

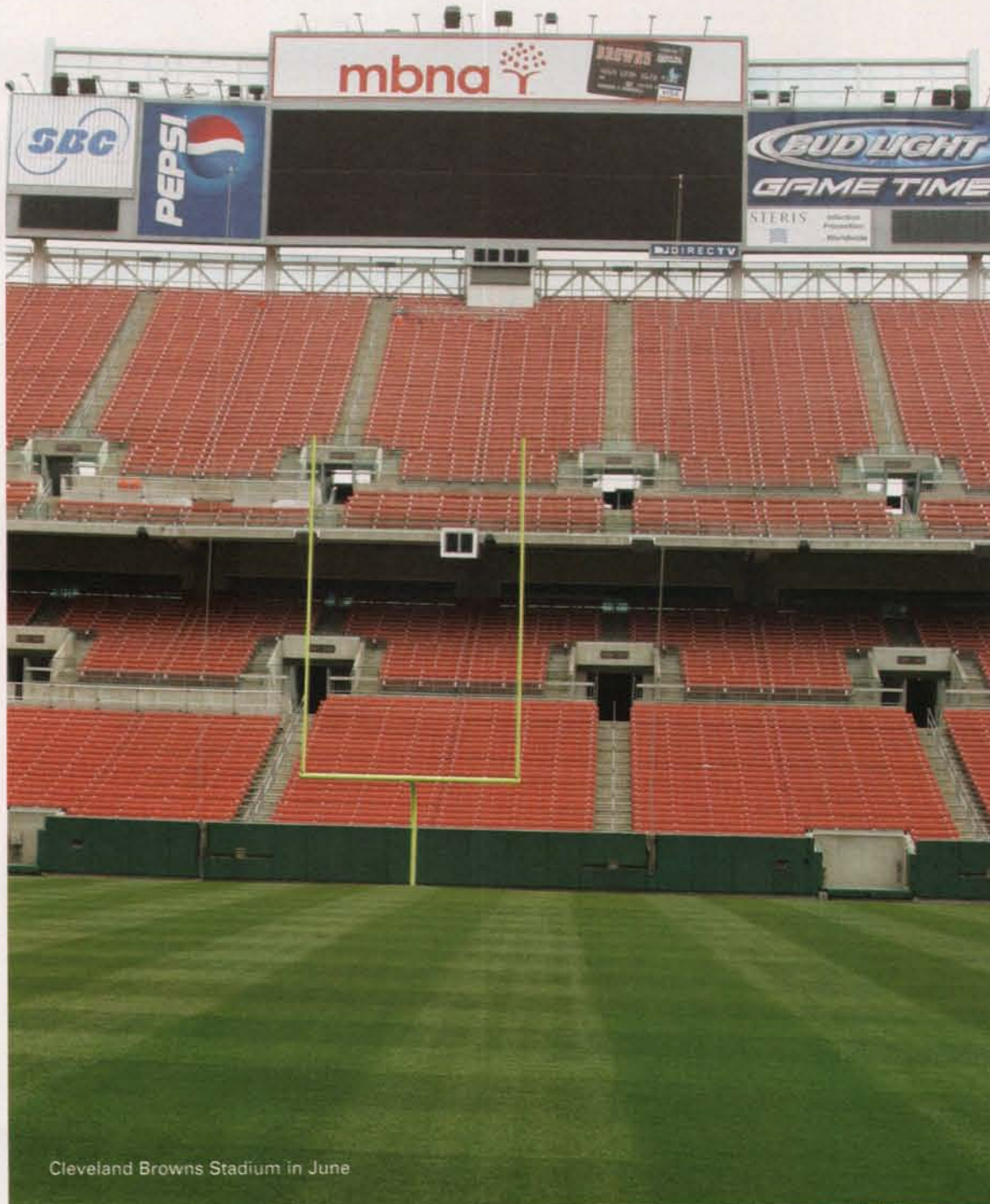
Forty-one miles of underground pipes and a glycol pump help keep Browns Stadium field warm in colder weather. The heating system, which features an array of temperature sensors at depths of 5 and 7 inches, also extends the growing season. And when the field begins to wear down from the regu-

lar-season grind, Powell and his staff "will pound the middle once a week with ryegrass seeded at 10 lb. per 1,000 square feet."

OSTMA President Brian Gimbel said attendance met expectations, even though the organization was

without an executive secretary for the three weeks leading up to the field day.

Jerry Roche is editor of Landscape & Irrigation and a veteran turf writer.



Cleveland Browns Stadium in June

Chris Powell answers questions at the stadium



STMA Calendar

September 26 Look for your STMA Conference Brochure

Oct. 1 Scholarship applications due (must be received by STMA by this date)

Oct. 14 Field of the Year applications and Founders' Award Nominations due (must be received by STMA by this date)

Oct. 15 STMA sponsored sports turf track at Lands Conference held in conjunction with the International Lawn, Garden and Power Exposition in Louisville, KY

Oct. 21 & 22 STMA presents at the National Parks and Recreation Association Annual Conference

Jan. 18-22, 2006 STMA Annual Conference & Exhibition, Disney's Coronado Springs Resort and Convention Center, Lake Buena Vista, FL

chapter news

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Sports Turf Managers Association of Arizona:

For information on the Chapter or upcoming events, contact Chris Calcaterra at e-mail: chris@peoriaaz.com or call 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):

The meeting at RFK Stadium in Washington, DC will be scheduled at a later date at which time we will see the change over from baseball's new team to MLS soccer. For more information contact Graham Davis at gdavis@american.edu or call 301/495-5522.

Colorado Sports Turf Managers Association: The last seminar for the year will be September 9 at Graff's Turf Farms. The CSTMA Board will need 2 new Directors and a Commercial Officer for 2006, if interested please contact President Richard

Buelter. For more information visit the Chapter's website at www.cstma.org or call 303/346-8954, or contact President Richard Buelter at 303/233-2922 or dbuelter@jeffco.k12.co.us.

Florida #1 Chapter: The Florida Turfgrass Association Show is September 10-15, 2005 in Bonita Springs. CEUs will be available. For additional information and registration go to www.ftga.org. The next Florida #1 Chapter meeting is October 18 at the University of Florida in Davie. For more information visit the Florida #1 Chapter page on STMA's website or contact John Mascaro at 954/341-3115 or STMA@turf-tec.com.

Gateway Chapter Sports Turf Managers Association: For information on the Gateway 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 by e-mail at skip@sportsturfmanagement.com.

The Greater L.A. Basin Chapter of the Sports Turf Managers Association: The Greater LA Basin's next meeting will be held on Thursday, September 15 at Pomona College, Pomona, from 10 AM-2 PM. This is an educational/general meeting including the nominations of officers for the 2006 year. CEUs will be available and there will be a lunch buffet for members. For information and reservations or for more information on upcoming events call Emilio Avalos at 949/824-8243 or e-mail ecavalos@uci.edu.

Illinois Chapter (formerly Midwest Chapter)

STMA: For information on the Illinois Chapter or upcoming events call chapter secretary Libby Baker at 847/263-7603 or e-mail Bake60ft6in@aol.com.

Iowa Sports Turf Managers Association: The Minnesota STMA swept the Iowa STMA in both golf and softball in the 7th annual Iowa - Minnesota chapter challenge held June 24-25 in Minnesota. Join them next year to see if the Iowa chapter can reclaim victory. The ISTMA Football Workshop is October 18 at Upper Iowa University in Fayette. For information visit www.iowaturfgrass.org or 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 KAFMO Cup Open is October 17 at Fairview Golf Course in Lebanon. The Open is the main fundraiser for the KAFMO Scholarship Fund. The scramble tournament is open to anyone who wants to enjoy a round of golf, chicken and rib dinner, drinks and prizes. Invite your friends, family, and co-workers to a day on the links. For information on the Chapter or upcoming events, contact Dan Douglas, Reading Phillies Baseball Club at 610/375-8469, ext. 212 or by e-mail to: kafmo@aol.com.

Kentucky Sports Turf Managers Association: The Kentucky Turfgrass Council (KTC) Annual Meeting and Trade Show is October 24-27 in Bowling Green. For more information go to www.kystma.org or contact Donnie Mefford at dbmeff00@email.uky.edu or call 859/257-1451.

Michigan Sports Turf Managers Association (MiSTMA): For more information on the Michigan

chapter news

Chapter, visit their website at www.mistma.org or contact Chad Follis at 269/377-3340 or 269/381-0596 or by email at chadfollis@farmngarden.com.

Minnesota Chapter STMA: The MSTMA held their Summer Tour on wheels July 27. 52 members attended, the largest group ever for an MSTMA event. Look for upcoming information on our Fall Workshop to be held in the City of Prior Lake on October 5. Also look for upcoming information on the Community Service project to be held mid-September. For information visit the Chapter website at www.mstma.org or contact chapter President Greg Hoag at 651/486-8295 or by email at greg.hoag@metro-inet.us.

MO-KAN Sports Turf Managers Association: For information on the Chapter or upcoming events, contact Paul Hecker at 913/971-9717 or email phecker@olatheks.org.

New England STMA (NESTMA): NESTMA announces the 2005 Mruk scholarship award winners: Nathan Salmore, Kyle Walsh, and Andrew Walsh, all who attend the University of Massachusetts; and Adam Holligan who attends The State University of New York at Cobleskill. The scholarships recognize Charles Mruk, a field agronomist who is a strong advocate of education, for his dedication to the turf industry. For information on the New England chapter or other upcoming events, contact David Pinsonneault at 781/861-2757 or dpinson@ci.lexington.ma.us.

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

Sports Field Managers Association of New Jersey: For information on the New Jersey 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): OSTMA will have its annual Fall Field Day at the Ohio State University Intramural Fields September 13. This is a vendor showcase that provides attendees the opportunity to operate a large range of turfgrass maintenance products on the fields at beautiful Beekman Park. There will be ODA credits available for some talks. We would also like to welcome aboard our new Executive Secretary, Cindy Vaughn. For more information, you can email us at ostma@aol.com or call us at 888/824-9805. You can also contact the Chapter President, Brian Gimbel, at 614/292-9450 or gimbel.1@osu.edu.

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 Southern California 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: The 2005 Clemson University Turfgrass Field Day will be held from 8 AM-noon on September 13 at the Pee Dee Research and Education Center in Florence. The field day will be followed by lunch and then at 1:30 PM by the Charles P. Willimon, Sr. Golf Tournament at Florence Country Club.

Registration information, including travel directions, can be obtained at under 2005 Turfgrass Field Day or from Sam Cheatham at 803/957-0616 or scturfgrassfoundation@alltel.net or Jim Camberato at 843/669-1912 ext. 226 or jcmbrt@clermson.edu. For the golf tournament please check the website, or call Sam Cheatham or Hank Kerfoot at 803/713-8873 or by email at hank@modernturf.com. For more information contact Trent Hale at 843/662-3526 ext. 206 or by e-mail at tchale@clermson.edu for more information or visit www.sctstma.org.

Texas Sports Turf Managers Association: TXSTMA will be holding an Educational Field Day event in the DFW area in October as well as the Annual Scholarship Golf Tournament. Watch for more information in the mail. For information call 866/897-8621 or T.J. Thompson, President-Elect at 972/670-2138 or by email at TXturfmanager@prodi-gy.net.

Tennessee Valley Sports Turf Managers Association (TVSTMA): The chapter will be holding the West Tennessee Field Day at the University of Tennessee at Martin September 9. For more information visit the Chapter's website at www.tvstma.org or call Chapter President, Chris Pearl at 615/242-4371.

Virginia Sports Turf Managers Association: The VSTMA will participate in and support the Virginia Turfgrass Council/Virginia Tech Field Days in Blacksburg September 13-14 and will also participate in and support the Virginia Turfgrass Council Sports Turf Short Course in Blacksburg December 5-8. For more information please contact VSTMA President Bob Studholme of the Fairfax County Park Authority at 703/324-8590 or robert.studholme@fairfaxcounty.gov.

Wisconsin Sports Turf Managers Association: For information on the Wisconsin 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.

New York Sports Turf Managers Association: Contact - Mike Albino by phone at 315/468-6225 or (c) 315/427-1214 or email him at mikealbino@earthlink.net.

Idaho STMA: For information, contact Greg Liggett, at 208/496-2421 or email him at liggett@byu.i.edu.

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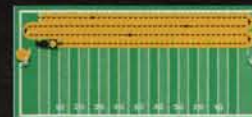
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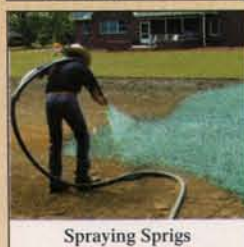
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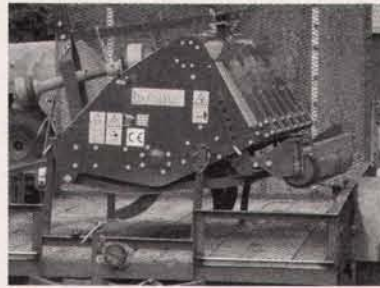
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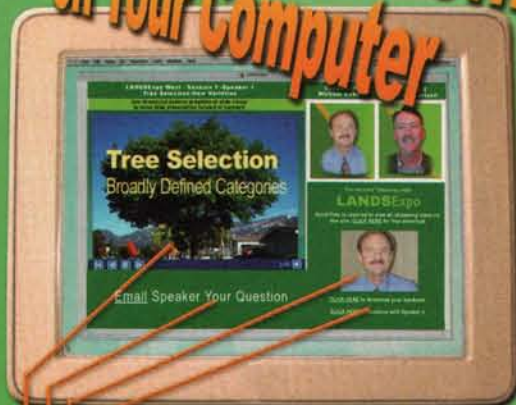
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Just rolling along

We have been following your recommendations for coring and seeding and the stadium football field has greatly improved. It is late July and while the field is looking good I would like it to be smoother before the season starts. In addition to games, we will have a few practices starting in mid-August. Can we roll the field now to make it smoother?

Des Moines, Iowa

Rolling turf always conjures up a bad image of soil compaction and why shouldn't it? Take a big heavy chunk of steel and smash whatever aberrations occur on the surface. After all, if you are going to smash the bumps in the field then the soil must compress somewhere. The truth is that many athletic field managers roll their field at certain times of the year and under certain circumstances with very good results and little demise to the field. To simply state that rolling is good or bad would dismiss all of the nuances that make rolling successful by a knowledgeable sports field manager. Let's review by example some of the successful and damaging circumstances of athletic field rolling.

All rollers are not created equal. It is important to consider the weight of the roller and the surface area that it contacts. Rollers made specifically for turf application generally weigh 300-1,000 lbs. and result in 3-7 lbs./sq.in. of pressure on the ground. These rollers have ground pressure that is comparable to the tire pressure caused by commonly used mowing, topdressing, and aerifying equipment. Moderate use of these lightweight rollers generally does not lead to excessive compaction as long as soils are not too wet. Rollers specifically designed for turf application have rounded edges to avoid gouging of the surface. They are typically used for light smoothing, grass striping, and rolling newly seeded or sodded areas. Larger construction rollers may be needed when lightweight rollers do not produce the desired smoothing effect.

Larger construction rollers with straight or sharp edges on the drum are often used to roll athletic fields. Care must be taken to avoid over-steering the roller and gouging the surface. Construction rollers can range from 1-6 tons. Large rollers with smooth edges can also be fabricated from sand filled propane tanks. All of these rollers can increase soil compaction and you should carefully consider the temporary benefit and the additional aerification that will be needed.

A one ton construction roller can be used to smooth worm casts, frost heaved ground, the transition between the grass and skin infield, and ruts and divots caused during wet games. As a general rule use the lightest roller possible to produce the desired result. As a general rule I try to avoid using rollers greater than one ton on native soils. Be careful not to use a roller larger than one ton just because a construction company donates it. Although it was well intended I have seen severe compaction in a single application using rollers greater than 2 tons. The vibration option on a construction roller can also lead to severe compaction.

In addition to roller size and weight, it is important to consider soil type and moisture. Wet soils compact easier than dry soils and clay soils compact more than sandy soils.

Here are some specific considerations for specific rolling situations:
The coach wants the field rolled but you really don't want to add to the

compaction. Don't fight it. Just get your lightweight roller or even a heavier roller, wait until the field is dry but not wilting, and then roll the field. The grass will lay over and look smoother but you will have not effectively increased compaction because the dry soil is too stiff to compact. Essentially you change nothing but both you and the coach get what you want.

You have had a muddy game and there are foot ruts all over the field. If the field dries or freezes the hardened ruts will cause a dangerous surface. This is where you need to use your judgment. Even though rolling will compact the soft soil it is necessary in order to make the field playable for the next event. Allow the field to partially dry until the mud and free moisture have dissipated. The roller will crush the raised edges of the footprints without severely compacting the soil. A light vertical mowing can also be used to grind down the ridges on heavily foot-printed fields that have dried.

Remember that your primary job is to make the field playable and safe for the next event. If it requires smashing the moist surface flat then you may just have to bite the bullet and then use hollow coring within two weeks to open the surface again. This type of rolling is intended for extreme situations and should not become a routine practice since repeated rolling of wet surfaces will certainly lead to excessive compaction that may not be overcome by aerification.

Rolling should only be used to smooth a surface within the width of the roller. It is not a substitute for poor grading and will not level depressions or mounds that extend beyond the width of the roller. Coring, topdressing with sand or compost, and dragging are more suitable when trying to level depressions and mounds.

Baseball and softball fields require a smooth surface to avoid erratic ball movement. Infrequent heavy rolling and frequent light rolling may be necessary to smooth the surface. A one-ton roller will not remove "infield lips," however it can be used to routinely smooth the seam that develops between the grass and the infield skin.

Routine mowing with reel type mowers produces a smoother surface than rotary deck mowers. Rollers on reel units spreads the mower weight and provides light routine rolling of the surface.

The question specifically asked if the field could be rolled in July to prepare for the upcoming football season in August. Avoid rolling dry, dormant, or wilted turf since crushing the plants can cause severe turf injury that is similar to wheel tracking by mowers. Also, rolling during dry conditions seldom has any impact on smoothing the field. Rolling before the autumn football season is acceptable if the grass is actively growing, diseases such as *Pythium* and *Rhizoctonia* brown patch are not present, and if irrigation is available to recover the turf. If you do not have the capacity to aerify then you probably have no business rolling a field.

Rolling is often a necessary and effective means of improving the playing surface of athletic fields. Careful consideration should be given to soil type and moisture conditions as well as roller type and size. You or the coach must be able to justify the need for rolling based on the perceived result and the additional aerification that will be required to offset compaction. **ST**

QUESTIONS? 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 gmliller@mail.ifas.ufl.edu.