



TALL FESCUE

Tomcat is a new tall fescue released by Clemson University that is heat and disease resistant. It is recommended for permanent turf in full sun or partial shade on golf course roughs and commercial grounds.

Cebeco International Seeds also has available Showboat, an economical overseeding custom ryegrass blend that will transition in the spring. Showboat is a blend of improved perennial ryegrasses such as Derby Supreme and the new and improved Axcella annual ryegrass.

Axcella is the first turf-type annual ryegrass available for the sports turf industry. It exhibits a light green turf color, is slower growing, and has greater tiller density and narrower leaf blades than other commercially available annual ryegrass varieties, says Cebeco. Axcella provides earlier transition to warm season grass than improved intermediate and perennial ryegrass.

Cebeco International Seeds/800-445-2251

www.intlseed.com

For information, circle 160

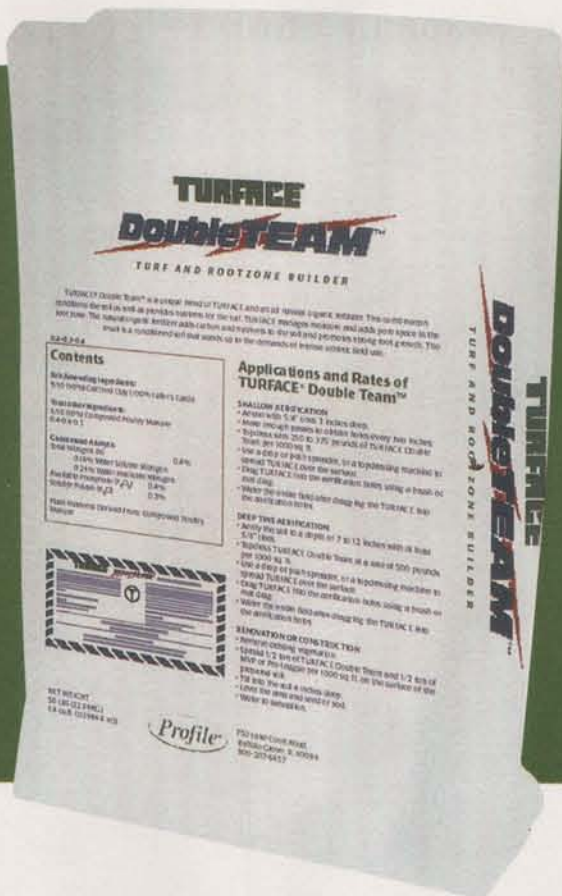
TURF & SOIL CONDITIONER IN ONE

Turface DoubleTEAM is a turf and soil conditioner in one. The blend of Turface MVP and natural organic fertilizer conditions the soil and provides plants with organic nutrients to recover from the stress of athletic traffic. The product helps produce and maintain stronger and healthier turf under tough conditions.

Profile Products/800-207-6457

www.turfaced.com

For information, circle 162



CERTIFIED BERMUDAGRASS

TifSport's turf quality, turf density and turf strength all helps it recover quite rapidly from injury and stress. This is a bermudagrass that's ideal for athletic fields, golf course fairways, teeboxes, putting green fringes and practice areas. In addition to superior color, cold hardiness and disease resistance, it handles frequent, lower mowing heights exceedingly well.

TifSport/888-584-6598

www.tifsport.com

For information, circle 158



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Circle 104 on card or www.OneRS.net/208sp-104



REDUCED MAINTENANCE BERMUDAGRASS

Celebration bermudagrass is the newest release in the line of superior turfgrasses from Sod Solutions, Inc., a leader in developing improved warm season varieties. Celebration is the result of more than 10 years of development with Dr. Rod Riley, Australia's most accomplished turfgrass breeder. This winning selection offers an unbeatable combination of striking dark blue-green color, soft texture, and dramatically reduced mowing requirements. Grounds maintenance professionals also appreciate its drought tolerance, good cold tolerance, and higher degree of shade tolerance. Adaptable to zones 6b-11.

Sod Solutions, Inc./843-849-1288
www.sodsolutions.com
 For information, circle 161



NEW POP-UP ROTORS

Hunter Industries has expanded its I-20 Ultra rotor line with 6-in. pop-up models, offered in either stainless steel or plastic risers. The new pop-up clears tall grasses, flowering shrubs, and ground covers; the stainless steel risers offer better endurance in coarse or sandy soil conditions, says Hunter.

The I-20 Ultra is the company's "upgrade" rotor because all models feature FloStop control, which allows you to turn off one head while the system continues to run. An expanded selection of specialty nozzles for the I-20 models recently was introduced.

Hunter Industries/800-733-2823
www.hunterindustries.com
 For information, circle 166

Soil Reliever Model 75 Heavy Duty



For deep tine aerification in the toughest conditions, you can't beat the performance of our new SR75 HD.

This machine is built specifically for deep aeration in heavily compacted soils.

If your sports fields are suffering from problems associated with compaction and poor drainage, call Southern Green about our complete line of deep tine aerators.



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Did you know that a seeded Bermuda could present you with one and the same class of Bermuda turfgrass? Princess-77 provides a stand of Bermuda that even professionals are hard pressed to see the difference between the seeded variety and a vegetative type variety. Plus, Princess-77 exhibits a more efficient use of water by requiring 21 percent less water to provide the preferred results, recovers quicker from wear and tear than the most commonly planted vegetative type. All of these features including the natural dark green color and improved shade tolerance can benefit the presentation of your product, the superb playing field, plus offers the ease of establishment on your schedule since you can spread the seed.

Pennington Seed/706-342-1234, x281
www.penningtonseed.com
 For information, circle 159

**ITT Industries irrigates
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GET ALL GRUBS

Grub treatments just became easier with an application rate change for MACH 2 specialty insecticide. A newly approved federal label states that all white grub larvae can be treated at 2 lb. of active ingredient (halofenozide) per acre. The previous MACH 2 label specified a range of 1.5 to 2 lbs. of active ingredient per acre depending on the grub. The label change applies to both liquid and granular formulations.

The new rate is based upon efficacy performance from field trials conducted within the last year.

Dow Agrosiences/800-255-3726
For information, circle 175

REDUCING WILT

A controlled study at Michigan State's Hancock Turfgrass Research Center last year compared wilt ratings of bentgrass turf grown with and without Hydrozone, a water-absorbing polymer. The turf grown with the product showed significantly less wilt and was able to go longer periods without watering.

The root system of the treated turf established faster and had greater mass and density than the untreated turf, according to Hydrozone producer AAdvanced Water Management.

AAdvanced Water Management/877-994-3494

www.hydrozone.net

For information, circle 174



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Most sport facilities are often faced with very short periods of time between sport seasons to get their fields "playable".

Typar® Turf Blankets will enhance germination and root growth, allowing for earlier usage and greater survival through seasons.

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Circle 107 on card or www.OneRS.net/208sp-107



TRIPLE BENEFITS

A new omni-directional surfactant with enhanced kelp, Aqua-MAXX was developed to put down water, wetting agent, and growth stimulant all in one application. The product is formulated from a highly stable, enhanced kelp extract, and combined with an industry-proven wetting agent to produce maximum root growth and root density in minimum time, says Aqua-MAXX.

Aqua-MAXX/800-394-1551

www.aqua-maxx.com

For information, circle 165

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SR 2284 Kentucky Bluegrass

NEW KY BLUEGRASS

Seed Research of Oregon has released a new Kentucky bluegrass variety, SR 2284, which will be highly sought in its first commercial year release this fall due to its high drought tolerance and excellent leaf spot resistance.

SR 2284 is an excellent choice for the sod grower and sports field manager who is looking for a dark green, uniform color and strong performance in the shade.

Seed Research of Oregon/800-253-5766

www.sroseed.com

For information, circle 163

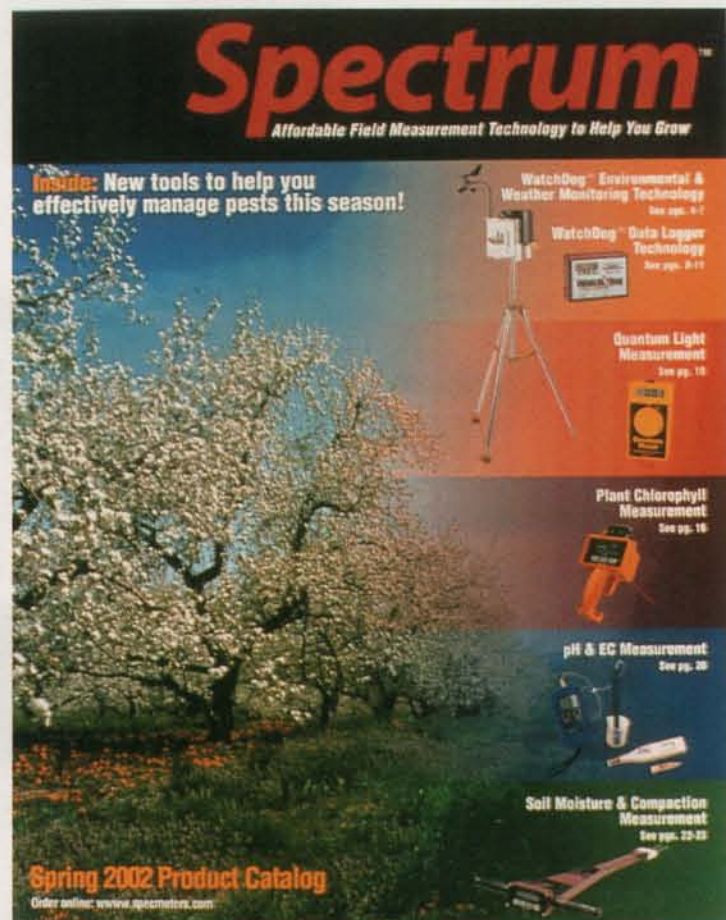


HERBICIDE

Karmex IWC is a diuron dry flowable herbicide for control of many weeds. It may be used as a pre-emergent treatment any time of the year when ground is not frozen. Best results if applied shortly before weed growth begins. In dense growth, remove tops and spray the ground.

Griffin LLC/800-737-3995

For information, circle 171



MEASUREMENT TOOLS

Spectrum Technologies has published its latest catalog, which features agronomic tools, including a new line of integrated pest management (IPM) software. Used in conjunction with Spectrum tools, these systems can help you predict diseases and other adverse growing conditions.

The catalog features many products, including the WatchDog weather station that can activate fans or heaters.

Spectrum Technologies/800-248-8873

www.specmeters.com

For information, circle 172



Balanced Chain Methylene Urea is a top fertilizer performer

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BCMU® helps plant tissues come as close as possible to utilizing and storing the optimum level of nitrogen, maintaining adequate growth and proper root and shoot development which produces turf that is much better able to resist environmental stresses.

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BCMU® provides quick greenup with enough longevity to carry the rich, deep green color up to 18 weeks, much longer than lower-end methylene ureas and coated technologies. Visual quality will remain when other fertilizers begin to fade.

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The precise and steady release of BCMU® gives turf managers consistent results with any application rate or interval while building a solid nitrogen base. Its low salt index with almost non-existent burn potential make it the safe choice as well.

When you consider all the important features and benefits of a nitrogen source, no other competitor compares to BCMU®. Its unique balance of short, intermediate and long methylene urea chains creates a product that is the best of all worlds and an outstanding value.

Combine that with the efficiency of Meth-Ex® technology and you have a nitrogen source that stands alone. BCMU with Meth-Ex technology has a high nitrogen activity index, which means that more nutrients are available when the plant requires them while “banking” some for later use.

BCMU™ is found only in UHS Signature Brand Fertilizers and have been tested and used with outstanding results for years. Find out why the best fertilization program should be an easy balancing act for the smart turf manager.



For more information, contact your local UHS representative
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Field renovation via overseeding

BY DR. FRANK S. ROSSI

Each year National Football League franchises that play their games on natural turf fields are faced with worn out turf between the hash marks. Much of this can be related to the decision to narrow the hash marks, eliminate a strong and weak side attack and open the game up offensively. From a turf perspective however, the decision has been devastating.

The easy (and expensive) solution has been to periodically replace the turf between the hash marks with sod. Often this requires a Herculean effort to remove the existing turf and install new sod in a 7-day period before the next game. Not only is this expensive, it is not a long-term solution that can be adopted by many scholastic sports turf managers.

Interestingly the increased number of sand-based fields has not alleviated all the problems associated with traffic stress. It can only be surmised that soil modification is but one component of high traffic turf strategy. Clearly, the ability to rotate traffic is critical, yet very little effort has been exerted to develop seeding programs to compensate for high traffic fields.

Overseeding basics

Jim Puhalla, Jeff Krans, and Mike Goatley, authors of *Sports Fields: A Manual for Design, Construction and Maintenance*, (Sleeping Bear Press, 1999) define overseeding in the cool season zone as a means of improving turf density. This might include coring or slit/slice seeding to improve soil and seed contact. In cool season turf this is performed on an actively growing turf as compared to warm season turf that is overseeded when dormant. The distinction between warm and cool season turf is critical as success for each requires an understanding of the ecology (relationship among the organisms and their environment) of a sports turf.

The presence of an actively growing turf creates challenges to successful overseeding. For example, the existing turf has a competitive advantage over young seedling turf in procuring water and nutrients from the soil. Also, if overseeding is performed during the season, the seedling turf will have to withstand regular mowing and traffic. Therefore, successful overseeding may require a shift in thinking to sacrifice field playability for seedling turf success, i.e., field rest, reduced mowing frequency, increased irrigation for establishing seedlings, etc.

Unfortunately, many fields are incredibly overused, leaving the existing turf in a non-competitive state. While this can be desirable from an overseeding perspective (bare soil, thin weak turf), overseeding will still be a challenge, especially if the field will not receive rest. Inevitably the success of an overseeding program depends on getting the seed in contact with the soil, resting the field, and maintaining the field as a seedbed.

The process will involve thinning the existing turf if necessary with vertical mowing or scalping. After the turf is thin either from traffic or mowing, research here at Cornell University has demonstrated the benefit of multiple core cultivation, allowing cores to dry and pulverizing. The cores are destroyed and dragged with a mat or chain link



fence. The area is seeded with a broadcast applicator or slit seedling if you prefer.

Following the seed a starter fertilizer high in phosphorus is



Replacing turf between hash marks with sod is expensive and not a long-term solution for most scholastic turf managers.

applied and the area is lightly rolled to ensure good soil-seed contact. The field is irrigated to establish the seedlings and because the field was scalped or thinned, often mowing can be withheld for at least 3 weeks. Traffic should be withheld for at least 4-6 weeks for a perennial ryegrass renovation and 8-10 weeks for a Kentucky bluegrass renovation.

Compared to most scholastic sports turf, it is hard to refer to a professional sports field as high traffic that hosts 8-10 games of one sport per season. Many scholastic fields host school and community sporting events over multiple seasons. These events occur on a less than desirable root zone and are managed with considerably fewer resources than a professional sport franchise. Consequently, innovative solutions to high traffic areas, especially the use of overseeding, must be employed.

Aggressive overseeding

Many sports turf managers at the scholastic and community level are challenged with excessive high traffic fields. These fields may start the season with full turf cover but after a few weeks the turf thins in high traffic areas to be bare ground. This leaves many questions regarding field safety as well significant weed invasion.

To address the need to maintain turf density during high traffic periods we initiated an experiment to investigate the effect of aggressive overseeding, i.e., high rates of seed applied weekly or monthly under traffic. The experiment was conducted at the Cornell's Turfgrass Research and Education Center, Ithaca, NY, on three blocks of turf (Kentucky bluegrass "Coventry," perennial ryegrass "Manhattan III," and Tall Fescue "Jaguar III"). The turf was trafficked in two directions 5 days per week with a Brinkman traffic simulator. This traffic treatment resulted in significant turf thinning over the 12 weeks of the study.

Within each turfgrass block overseeding programs were applied on Friday of each week following mowing and trafficking. The treatments were 6 or 10 pounds of perennial ryegrass or tall fescue seed per 1000 square feet applied weekly or monthly, and Kentucky