

PRODUCT SHOWCASE

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Wayne, PA 19087

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program you use to manage your cool-season turf. The decisions you make about day-to-day maintenance activities will have a dramatic impact on the likelihood of common bermudagrass invading your cool-season turf and the severity of such invasion.

If your equipment — mowers, tractors, and implements — receives widespread use on bermuda-contaminated sites, it is crucial to clean the units before each use on cool-season turf. Though this may appear very simple, turf managers often overlook the prevention of bermudagrass contamination through the spread of plant segments capable of generating growth in new locations.

Additionally, the decisions you make on mowing height, timing, and frequency of aerification, topdressing, overseeding, irrigating and fertilization all impact the likelihood of an invasion by an undesirable warm-season turf.

In essence, you need to evaluate the impact of your proposed maintenance operation, not only on the desirable grasses, but also on the grasses (weeds) that you would like to keep out. For example, lower mowing heights favor bermudagrass, particularly during the summer, while higher mowing heights tend to give the cool-season grasses a competitive advantage.

Monitor the timing and frequency of core aeration. Scheduling aerification of cool-season grasses in the summer would not be recommended. This practice would open areas for potential invasion by bermudagrass during its most active growing season, and at the same time stress the cool-season turf, compounding the likelihood of invasion by heat-hardy bermudagrass and other weeds.

If summer aeration is essential to relieve compaction, use the least disruptive methods and try to time the practice with periods of cooler weather. Ideally, core aeration combined with overseeding and topdressing would be timed to coincide with cooler fall temperatures and the natural decline of the bermudagrass.

Irrigation and fertilization programs also can be used to stimulate cool-season turf growth and discourage bermudagrass activity. Adjust watering intervals to ease drought stress in cool-season turf. Use frequent soil tests to monitor nutrient levels. Cut back on summer fertility and time applications to coincide

Avoid opening the door for bermudagrass invasion by managing the use of cool-season turf to avoid unnecessary stress.

with the spring and fall growth cycles of the desired turf.

Avoid opening the door for bermudagrass invasion by managing the use of cool-season turf to avoid unnecessary stress. On athletic fields, monitor turf conditions and schedule field use to provide recuperative periods when needed. Whenever possible, work with field users to rotate practices to lesser-used fields or portions of the field that receive less traffic.

Selective Herbicides

The final approach is the application of selective herbicides that, ideally, will eradicate the bermudagrass and retain the cool-season grass. Selective materials have long been the goal of many herbicide developers. The ideal product would kill off the tough bermuda and leave the desirable cool-season grasses unharmed.

So far, no selective herbicide has been totally effective or reliable against unwanted bermudagrass. However, Turflon is showing some promise in research and testing at the University of California at Davis, under the direction of Clyde Elmore, extension weed scientist.

The work is exploring the potential uses of the herbicide Turflon as a control agent for bermudagrass in tall fescue, perennial ryegrass, and Kentucky bluegrass turf. Both informal and formal trials have been conducted. These included single applications as well as sequential applications to areas invaded with both common bermudagrass and broadleaf weeds.

Initial results of the single foliar

application have shown the bermudagrass was stressed and experienced some foliage decline. The suppressed growth has provided the cool-season grasses with a competitive edge, and achieved some level of bermudagrass control, but not its eradication.

Sequential applications of Turflon appear to be more promising. A second and third application appeared to increase the overall stress on bermuda plants and resulted in the death of more bermuda plants. The bermudagrass plants that were not killed were suppressed dramatically.

The most promising indication of control has resulted from a combined application of Turflon and Acclaim (a crabgrass post-emergence product). This combination continues to undergo testing to determine why it appears to be more effective than other applications initially tested. Although this combination is strictly experimental and should not be duplicated without proper permission, it may provide some hope for an extremely effective bermudagrass control product in the near future.

Avoid the Blues

Overall, just as the doctor prescribes, the best way to avoid the bermuda blues is prevention. Though efforts to provide a highly effective selective bermudagrass control product continue, turf managers need to do their best to prevent the bermudagrass infiltration of cool-season turf.

We can prevent bermudagrass invasion by carefully managing the entire cool-season turf system. This includes:

- Sanitary practices;
- Cultural practices;
- Use patterns.

If your cool-season turf is invaded by bermudagrass, consider the three post-emergence applications:

- Mechanical control;
- Non-selective herbicides;
- Selective herbicides (if and when available).

Above all, remember that you are managing a complex growing system and that no one solution is a panacea. Use all the tools at your disposal to avoid the bermuda blues. □

Editor's Note: Bob Milano is grounds operations manager, University of California at Davis Physical Plant, and a former board member of the national Sports Turf Managers Association.



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STMA is an organization of professionals representing all segments of the sports turf industry. Our members work to combine the science of growing grass and the art of maintaining sports turf to produce playing fields that are both safe and aesthetically pleasing.

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Millcreek Manufacturing Co.

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1-800-879-6507

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PRODUCT SHOWCASE

Water Reels



Kifco has introduced two models to their popular line of Water-Reels. The new B110 and B180 extend the product line to ensure there is a Water-Reel to fit your needs. Machines are compact, easy to use, operate unattended, and shut off automatically. They are suitable for all types of sports turf and are easily transported from one area to another. Water-Reels combine outstanding features that come from more than 25 years of traveling sprinkler engineering.

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- Superior agitation . . . mixes paint.
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- Optional hose and gun for spraying.

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Goodyear 54-3100-26 high flotation turf tire works well anywhere on the golf course, wet grounds or dry. Its large, flat contact area skims over the greens with minimum compaction without rutting or damaging the grass. McCord's custom-built wheels make it easy to convert this tire to your turf equipment.

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Turf Resource Guide Being Developed

The Turfgrass Science Division of the Crop Science Society of America is compiling information for a Turfgrass Management Teaching Resource Guide. The purpose of the Guide is to provide information regarding available teaching resources for individuals involved in turfgrass education and training. The Guide will be particularly helpful to those involved in turfgrass education or training in high schools, two- and four-year programs, extension and private industry.

The various resource materials to be included are: videos; slide sets; computer software; computer services; books; periodicals; posters and other teaching resources or aids, including irrigation components, plant, insect, seed and fertilizer specimens, etc. The Guide will provide complete ordering information including the individual, company, or agency name, address, phone and fax numbers and cost, if any. If you have or know of any potential teaching aids that you believe should be included in the Guide, please send complete information to: Dr. Keith J. Karnok, Department of Crop & Soil Sciences, Plant Science Building, University of Georgia, Athens, GA 30602. Phone (706) 542-0931 or fax (706) 542-0914.



Wilson Named CEO of Ransomes plc

Ransomes plc of England, parent company of Ransomes America Corp., has named Peter Wilson as the new group chief executive. Wilson will be responsible for the global operations of Ransomes plc, including the direct management of Ransomes America Corporation.

Before joining Ransomes, Wilson was involved in the waste management industry as managing director of Northumbrian Environmental Management Ltd. Prior to that he spent nine years with BTR plc, holding several executive positions, including chief executive of their offshore and construction division.

Pilot Hits Hazard

Back in May, a small, single-engine plane splashed down into the pond of the Leonardtown, MD golf course. Completely missing the fairway and the 70 to 80 golfers on the course, the pilot escaped uninjured and failed to interrupt anyone's game. According to witnesses, he hit the pond and the golfers played through.

ROOKIES

PRODUCT UPDATE

Protective Pads

Promats is one of the leading sources of protective padding for a variety of applications, such as concrete or wooden walls, chain-link fences, posts and railings. Custom padding systems can be made to fit outdoor or indoor facilities.

Surfaces are suitable for applying advertising graphics. Product information, samples and list of completed projects are available.

PROMATS

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Field Marking Paint

Temp-Stripe field marking paint can be used on all types of athletic fields and is specifically designed to be easily removed from the field following any event. It can be applied by brush, roller, flat applicator or spray. Afterwards, Temp-Stripe can be removed from the field using light to moderate water pressure and light brushing with a broom.

Avoid using high pressure spray or excessive water, which can damage turf. Natural weathering with rain will remove Temp-Stripe within days.

J.C. WHITLAM MFG. CO.

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Artificial Turf Paint



If you are looking for an artificial turf paint that gives a bright and durable line, looks great on television, is environmentally safe and easy to apply, discover World Class Artificial-Turf Paint. In addition to artificial-turf paint, World Class offers superior field-marking paint. Ask about our green grass dye for your stadium or field.

WORLD CLASS

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Soil Amendment

Profile, by Aimcor, is a porous ceramic aggregate engineered from illite clay, formed through the accumulation of porous volcanic ash. The clay is sized, kiln baked and screened. The result is a very stable, highly porous aggregate that is the approximate size of a medium sand.

The honeycomb structure and moisture and oxygen exchange characteristics make it a unique material. Profile not only improves infiltration, but absorbs excess moisture, slowly releasing it again as the soil dries. As water is absorbed, oxygen is forced from the pore spaces, bathing the root zone with oxygen.

AIMCOR

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Chipper-Shredder



With the new EasyRake, you can combine your desire for well-kept grounds and your effort to recycle and reduce debris.

The EasyRake can solve your yard debris problems by reducing grass clippings, leaves, branches and limbs into finely-ground mulch or compost material.

EasyRake models are made with durable steel for long life, even under the most demanding conditions. They combine an efficient self-feeding chipper with a large bin-type shredder, creating the perfect tool for cleanup and recycling. The shredder bin conveniently folds down, allowing leaves and small twigs to be easily vacuumed by the machine. The chipper self-feeds limbs and branches up to 3 inches in diameter, while the shredder produces a finely-ground compost material.

EASYRAKE

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ROOKIES

PRODUCT UPDATE

Compact Hydraulic Seeder



Hydraulic seeding is fast becoming the best way to establish turfgrass for the lowest cost. Until now, it has not been cost-effective for jobs under 10,000 square feet.

Turf Products Inc. introduces a new 300-gallon hydraulic seeder that fits in the back of a pick-up truck. This puts the benefits of hydraulic seeding within everybody's reach for that competitive edge.

TURF PRODUCTS INC.

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Aera-Vator

The Model AE-80 Aera-Vator has a three-point hitch for mounting on 35-hp or larger tractors. PTO-power vibrates the tines to penetrate and fracture hard, compacted soil in a swath 80-inches wide. A vertical pivot joint on the three-point hitch unlocks when the unit is lowered, allowing the unit to make sharp turns during operation. The unit centers on the tractor and locks when lifted. A full-width seed box, three-section roller and rake attachment are available.

FIRST PRODUCTS, INC.

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Injector System

International Liquid Injection, Ltd., introduces the Envirojet™ high-pressure hydraulic aeration and injection system. Multiple jets aerate and deliver numerous soil and turf products to depths of 2 to 18 inches. The subsurface treatment of turfgrass and soil is accomplished without environmental impairment, alleviating

problems such as black layer and nematodes.

The system will oxygenate and aerate turf by placing extremely small holes on the surface and large subsurface soil fracturing patterns. This allows treatment of the grass and rootzone during heavy playing times with minimal disruption.

INTERNATIONAL LIQUID INJECTION, LTD.

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Water-Reel

The model B140 Water-Reel is designed to irrigate a full-size football field with a single pass through the center. An optional booster pump can raise water pressure if your existing pressure is not adequate for full coverage.

Water-Reels maintain the good looks of your turfgrass and improve athletic field playing conditions. Water-Reels are made in the USA to the high standards associated with a company that has manufactured traveling irrigators for more than 25 years.

KIFCO

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Roll Bar



designed to afford operator protection in case of an accidental rollover.

Available for all Yazoo front-cut riders, the roll-bar assembly features welded-steel construction and four-point design. This assembly is easily installed and includes mounting hardware and seat belt.

YAZOO MANUFACTURING

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Safety is always a major consideration when operating any type of power equipment. That's why Yazoo's OSHA-certified roll bar attachment is

Front-Mount Dethatcher

JRCO, Inc., announces its newest product for commercial walk-behind mowers, the JRCO Tine Rake™ Model 470 Dethatcher.

The Model 470 is a two-row, 46-inch wide, front-mount dethatcher with 35 double loop, spring-steel tines. It fits most walk-behind mowers. It can be used throughout the growing season, since its patented tines remove thatch without damaging healthy turf, resulting in a thicker and greener surface. The Tine Rake dethatcher combs and stripes as the mower cuts.

JRCO, INC.

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New Tall Fescue

Pennington Seed Inc. announces the release of a new turf-type tall fescue named Duster. Developed by Innovated Turf Research, Duster originates from Rutgers University.

Duster is distinguished by its noticeably deep forest green color, fine texture and low growth habit. It has exhibited above-average resistance to net blotch, brown patch and rust. Duster also exhibits excellent drought tolerance and seed yield characteristics.

PENNINGTON SEED

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Turf Drainage

Cambridge Sportsturf Drainage has developed new equipment to make sportsturf drainage affordable. Its new machine excavates four separate trenches (1-inch wide and 9-inches deep, on 16-inch centers), lays 1-inch perforated pipe and backfills the trenches with sand. The excavated spoils are deposited via conveyor belt into a side vehicle. The result is that the trenches are installed without any ground heaving or the need for cleanup.

CAMBRIDGE SPORTSTURF SYSTEMS

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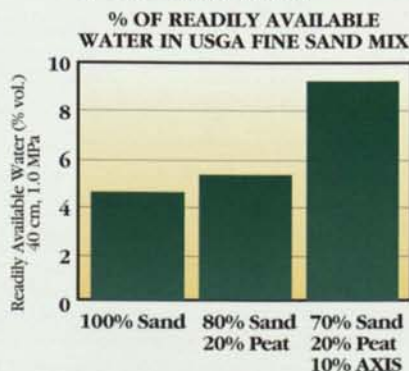
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