



Joe Harris, Superintendent,
Doubleday Field,
Cooperstown NY

**“With up to 5 games a day,
the Smithco Super Star AFC
makes my life a lot easier.”**

This year Doubleday Field was voted Schools and Parks Baseball Field of the Year by *Sports Turf Magazine*. Which is quite an accomplishment when you consider that between April and October over 350 games are played there. “We have as many as 5 games a day,” says Joe Harris, Doubleday Field superintendent. “We use our Smithco Super Star to condition the field before every game.” And no matter what the conditions - wet or dry - Smithco has the implements to get the job done.

The Super Star is loaded with features, including an advanced highly-responsive hydraulic drive system and hydraulic controls for all implements. The 16 HP gasoline engine is powerful, air-cooled and operates with a surprisingly low sound level. Offered with a newly designed scarifier with exact depth control and step-through chassis, tilt-steering wheel and mid-back seat for operator comfort. Patented “Speed Boss”, set by the superintendent, governs conditioning speed.



Smithco was founded 38 years ago and is still a family business. Test-drive any Smithco product. Discover what a difference pride and continuity, good people and new ideas can make.

SMITHCO SUPER STAR AFC	
Power	2-wheel drive 16 HP Vanguard OHV engine
Drive	High efficiency drive wheel motors; hydraulic to wheels; hydraulic control system linked directly to engine
Braking	Positive dynamic braking through hydraulic system to each drive wheel
Electrical System	12-volt, 15 amp
Construction	Welded steel tubular frame with 9" ground clearance
Speed	0-12 mph

SMITHCO

WAYNE, PENNSYLVANIA 19087

1-877-833-7648

www.smithco.com

Circle 153 on card or www.oners.ims.ca/5064-153



BROYHILL'S NEW TERRASPORT

The new TerraSport utility vehicle boasts a 1500 lb. total capacity and robotic-welded tubular steel frame construction. With a 16-hp Briggs and Stratton engine, continuously variable transmission (CVT), power steering, and multi-leaf spring, dual shock suspension, the units provide a smooth ride at speeds up to 20-mph. Optional rear cargo box offers a 1/3 - 2/3 design, making room for a toolbox, sprayer tank, or line marker paint tank, and is located behind the seat. Steel or wood boxes (with removable 10-in. sides) convert to a 48 x 48-in. flatbed.

Broyhill/800-228-1003, x34
For information, circle 068 or
see <http://www.oners.ims.ca/5064-068>

TIFSPORT

Why Does This Certified Bermudagrass Variety Make Such Good Sense for Sunbelt Playing Fields?

Closer Mowing Heights

Research conducted in Tifton GA shows that TifSport can tolerate closer mowing heights than Tifway and Midiron. With TifSport, mowing fanatics can mow away to their heart's content.

Superior Turf Density

TifSport has a greater density than Tifway - about a 1 point difference on a 10 point scale. And it's about 3 points better than common bermudagrass.

Good Lateral Growth

TifSport is more aggressive than genetically pure Tifway, especially during the cool weather months. This may account for TifSport's rapid grow-in and repair time.

Superior Sod Strength

TifSport's superior sod strength means quicker installation with less waste, and that's got to be good for your bottom line.

Excellent Traffic Tolerance

TifSport's turf density, sod strength and good lateral growth rate give it a high ranking for traffic tolerance.

Upright Leaf Blade Orientation

TifSport's leaf blade stiffness is being touted by many turfgrass professionals. With TifSport players seem to get better bounces.

Impressive Leaf Texture

TifSport has a similar leaf texture to Tifway, and a finer leaf texture than most other grasses. TifSport will deliver excellent footing for sports fields of all stripes.

Dark Green Color

Pastel green is passé. TifSport's dark emerald green color will make your fields the envy of the neighborhood.

Drought Tough

All grass has to have water, but TifSport can help you make it through those summer water restrictions. It stays healthier and recovers faster from drought than most other bermudas.

Cold Tolerant

TifSport has expanded the northern limit for warm season bermudagrasses. It has survived multiple winters as far north as Stillwater OK & Lexington KY.

Pest Resistant

Research has shown that mole crickets just plain don't like TifSport. That's just one more reason why you should.

Vigorous Root System

This inside view of a typical TifSport plug shows TifSport's impressive root system, stolons and rhizomes.

For a List of Licensed TifSport Growers Visit:
www.tifSPORT.com

NEW PRODUCT!



KUBOTA'S UTILITY VEHICLE

The Kubota RTV 900 features a 21.6-hp three-cylinder diesel engine and Kubota's exclusive three-range variable hydrostatic transmission and hydrostatic power steering. Four-wheel drive gets you through the rough spots, and wet disc brakes provide dependable stopping power. ROPS and a seat belt are standard equipment.

Kubota/310-370-3370
For information, circle 067 or
see <http://www.oners.ims.ca/5064-067>



E-Z-GO'S MPT

E-Z-GO's newest line of turf utility trucks is the E-Z-GO MPT (Multi-Purpose Truck). The MPT offers a truck-like front cowl, strengthened frame, a widened front axle and E-Z-GO's new E-Shield corrosion protection process. Product features of the MPT include an 11-hp, 350 cc, twin cylinder engine with a rotomolded Crosslink Polyethylene cargo bed with a three position, removable tailgate. The electric MPT 1000 features a true 48-volt powertrain with eight 6-volt batteries for applications that require quiet operation.

E-Z-GO/800-241-5855
For information, circle 069 or
see <http://www.oners.ims.ca/5064-069>

YAMAHA U-MAX UTILITY VEHICLE

U-MAX Medium Duty II Gas utility vehicle has a 357cc 4-stroke gas engine that produces 11.4 hp as well as a 500-lb. payload capacity and 1,000-lb. tow capacity. Standard with 22 inch all terrain tires, DC power outlet, headlights, taillights, and a tubular steel front bumper. Accessorize this vehicle with genuine Yamaha accessories and you'll have a utility vehicle that will meet any challenge put in front of it.

Yamaha Golf-Car Company/866-747-4027

For information, circle 070 or see <http://www.oners.ims.ca/5064-070>



REDEXIM CHARTERHOUSE'S OVERSEEDERS

Two new models from Redexim Charterhouse's OverSeeder line, the 1575 and the 2075. With its unequal disc slitting system, the OverSeeder plants the seed firmly in the ground, providing seed to soil contact. A tight spacing under 3 inches, so that each seed coulter is individually suspended and follows terrain. The new seed box uses a roller design allowing the machine an infinite range of feed rates with all seed types, from the very large to the very smallest bentgrass seed.

Redexim Charterhouse/800-597-5664

For information, circle 071 or see <http://www.oners.ims.ca/5064-071>



KROMER CONSOLIDATES OPERATIONS

Kromer (www.kromerco.com), the manufacturer of field maintenance products since 1945, has consolidated three manufacturing locations into one to maximize its manufacturing efficiency and output. The company also added a new Field Paint Mixing Station, with a 175- or 300-gal. capacity. This allows you to mix paint in bulk and store your "ready to use" mix for weeks. Also, Kromer products are now powder coated. This improves the finish and prevents rust better than wet paint.

Kromer LLC/800-373-0337

For information, circle 072 or see <http://www.oners.ims.ca/5064-072>

Who's telling your story?

Your work results in more available oxygen and fewer allergens, noise reduction and lower cooling bills, thicker turf that filters pollutants and landscapes that increase property values. There are endless environmental, economic and lifestyle benefits that green spaces provide—yet consumers don't know about them. They don't understand the true value of your products and services.

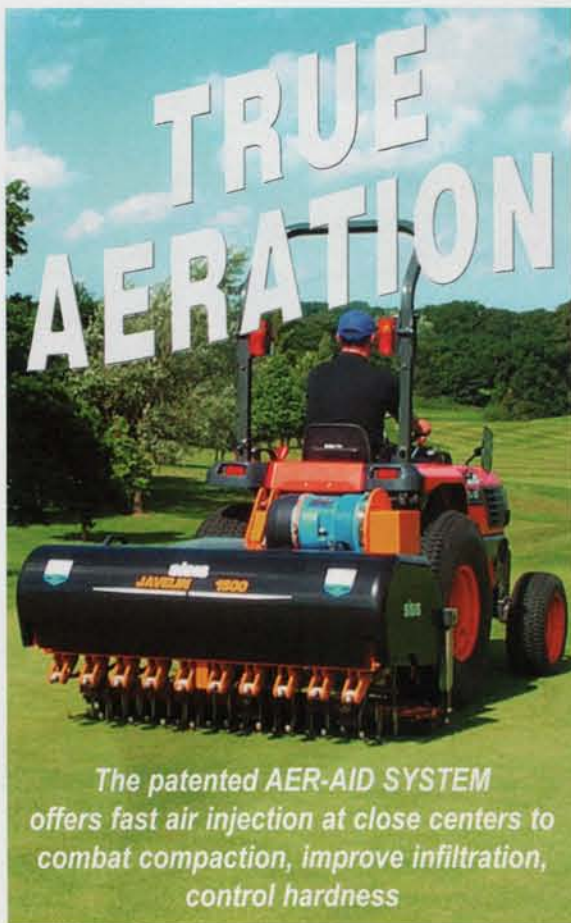
Join us in telling the whole story of what you do. Project EverGreen is an organization dedicated to educating the public about the value of green spaces and encouraging responsible practices.



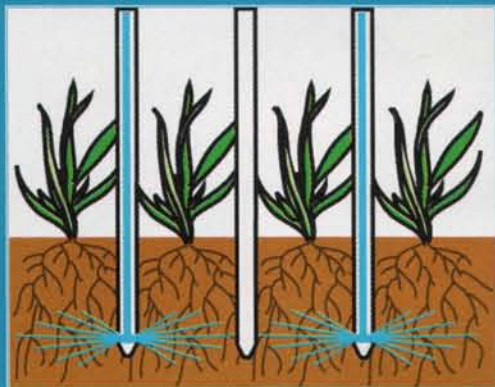
— PROJECT —
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Because Green Matters™

To make a contribution or find out more, call 877-758-4835 or visit www.projectevergreen.com.

Circle 184 on card or www.oners.ims.ca/5064-184



The patented AER-AID SYSTEM offers fast air injection at close centers to combat compaction, improve infiltration, control hardness



Clean air is blasted into the root zone at a rate of 3cu.ft. per minute



Minimal surface disturbance



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e-mail: sisisinc@bellsouth.net
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Call us today for more details or to arrange a demonstration

TURFCO'S TM-62 AERATOR

Available in both tow-type and three-point hitch mounted models, the TM-62 aerator from Turfco Direct can aerate a football field in 35 minutes or less, says the company. Independently mounted tine wheel sets allow turning without tearing the turf, and the TM-62 provides deep four-inch coring action to maximize aeration quality. The hitch mounted has built-in storage legs, which allow storage without a pallet. Turfco/800-679-8201
For information, circle 073 or see <http://www.oners.ims.ca/5064-073>



SIDEWINDER POWER RAKE

Turf Teq, LLC has introduced a SideWinder Power Rake for all types of seedbed preparation. The unit features a 36-in. wide drum. The pivot angle of the drum can be adjusted to the left or right from the operator position. The unit also features a hydrostatic transmission, 13 horsepower Honda engine and on-the-go differential lock. Turf Teq, LL/866-503-8873
For information, circle 074 or see <http://www.oners.ims.ca/5064-074>

TY-CROP'S NEW SPINNER TECHNOLOGY

Ty-Crop has developed a new twin spinner for its ProPass 180 that has the ability when topdressing heavy and narrow, to see a clearly defined edge. This allows for easy matching of spread on your next pass. Also, the new spinner is designed to fit both the exiting and new ProPass, allowing all ProPass owners to take advantage of this new technology.

Also, the ProPass 180 tow model now has a new self-contained hydraulic power pack. This option allows a wide variety of work vehicles to tow the ProPass, since the tow vehicle does not need to have auxiliary hydraulics. This power pack was designed to optimize weight distribution; the weight of the power pack has been split front to back, with the hydraulic tank mounted on the rear and the engine/pump combination mounted on the front.

Ty-Crop/800-845-7249
For information, circle 086 or see <http://www.oners.ims.ca/5064-086>



STRIPING KITS FROM FERRIS

Ferris Industries now has striping kits, available for all IS 1500Z and IS 3000Z series zero-turns. The kit, which consists of a rubber flap system, lays the grass down to create patterns across the landscape. When paired with Ferris' exclusive suspension systems the consistency of cut and stripe pattern are precise. Ferris Industries/800-933-6175
For information, circle 075 or see <http://www.oners.ims.ca/5064-075>



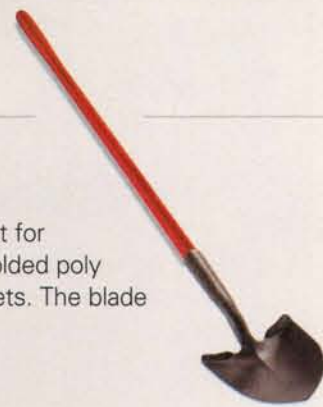
CORONA CLIPPER'S IRRIGATION SHOVEL

Corona's SF 77020 Shovel with a small, 7x9-in. forged, one-piece tempered head and a large forward turned step. Perfect for working in close quarters among tightly spaced plantings, this shovel also has a solid core fiberglass handle with a thick molded poly jacket. The SS 65500 irrigation shovel has a blade made of 14-gauge steel that is connected to the handle with doubled rivets. The blade has a forward-turned step and a straighter lift angle, bringing the handle closer to the worker for more efficient digging.

Corona Clipper/800-847-7863

For information, circle 084 or

see <http://www.oners.ims.ca/5064-084>.



CLASSEN SELF-PROPELLED TURF SEEDER

Infinite speed from 0-3.4 mph eliminates fatigue on operator; units operate in forward and reverse, and the constant speed means more consistent seed placement. Engine options include 5.5-hp Honda or 5.5-hp Briggs & Stratton Intek for 237-lb. units, which can be converted to dethatcher or verticutter in minutes.

Classen products are now available through over 3,500 Little Wonder commercial sales and rental equipment dealerships nationwide.

Classen/877-596-6337

For information, circle 085 or

see <http://www.oners.ims.ca/5064-085>



DITCH WITCH MINI SKID STEER

Ditch Witch has released the SK350 mini skid steer. Combining compact size with power and versatility, the SK350 is engineered to work longer without refueling, run more compact utility attachments, and provide greater overall power and efficiency than other machines in the 20-hp class. The 7.5-gal. fuel tank means the machine can run for 5 hours or more without refueling. The entire unit is powered by a 20-hp Kohler engine, which comes standard with a heavy-duty air filter.

Ditch Witch/800-654-6481

For information, circle 087 or

see <http://www.oners.ims.ca/5064-087>

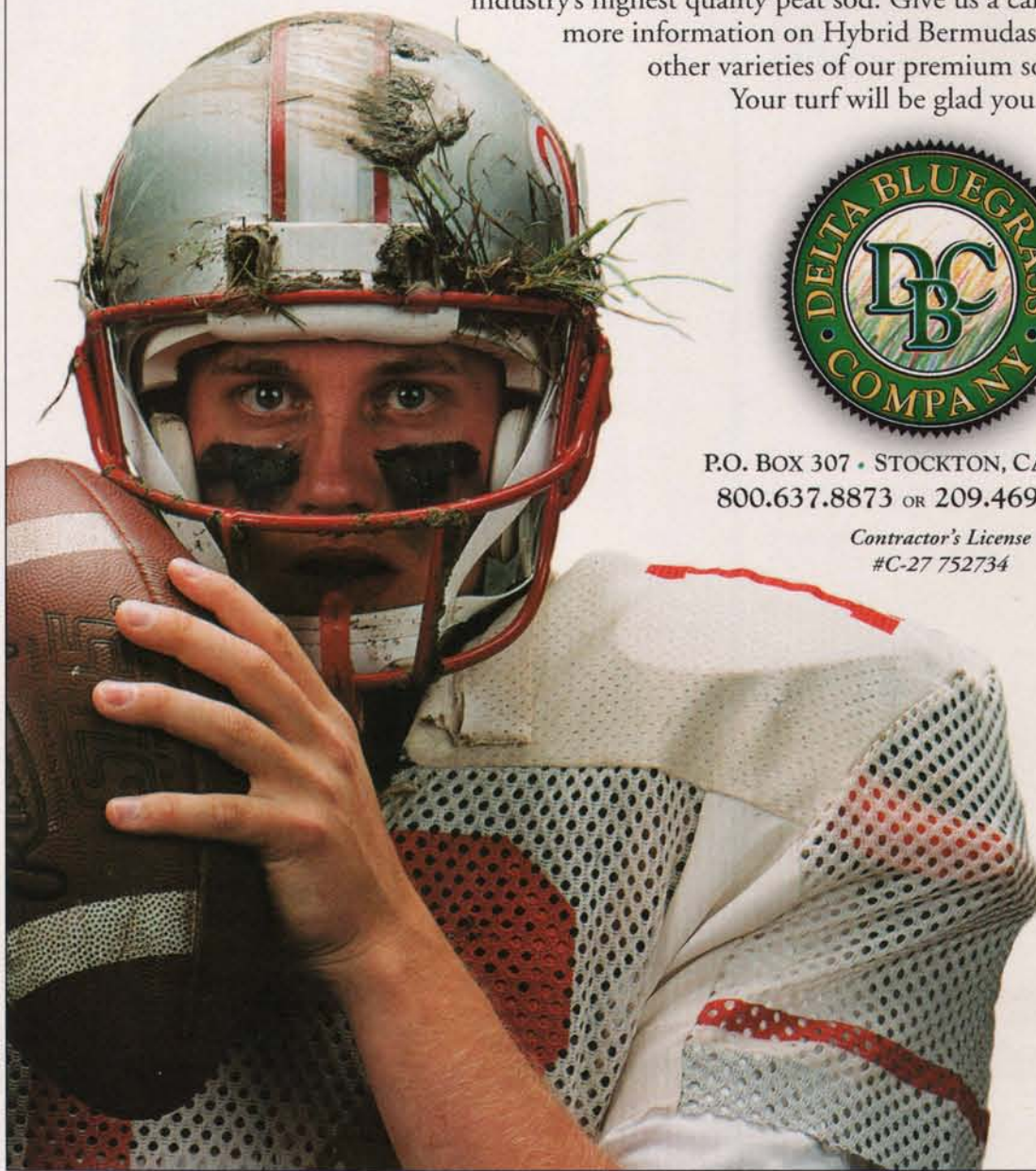
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TORN UP

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THE ROTADAIRON SOIL RENOVATOR™ ...

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RotaDairon® understands the needs of turf-care professionals: high-quality, maintenance-free machines that do more in less time. It's those needs we had in mind when we designed and developed each part of our Soil Renovator™:

- V-body blades that dig with the point of the blade to avoid panning and allow for increased drainage;
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Circle 165 on card or www.oners.ims.ca/5064-165



GRASSHOPPER'S POWERVAC

This large capacity vacuum collection system moves a high volume of air which carries even wet grass, high-moisture leaves, pine straw and dethatching debris to the collector. Deck-driven PowerVac eliminates the noise and extra maintenance of an auxiliary motor. Trash-ingesting steel impeller withstands abuse from hidden debris while reducing and compacting debris before depositing it into a Grasshopper collection system. Quik-D-Tatch design offers easy, one-step conversion to non-collection operation. For all True ZeroTurn, FrontMount, and MidMount (except models 218 and 220) mowers.

The Grasshopper Company/620-345-8621
For information, circle 088 or see <http://www.oners.ims.ca/5064-088>



NEW HOLLAND'S SUB-COMPACT TRACTOR

New Holland's new TZ25DA Boomer sub-compact tractor has the most engine horsepower of any sub-compact on the market. All three TZ sub-compact models have the power to handle front or rear-mounted implements, from a snow blower to a tiller to a front-end loader. For traction control, the optional Sensitrak system (TZ22DA and TZ25DA

only) engages and disengages the 4WD automatically and only when required to reduce scuffing the turf, save wear and tear on the tires and increase the life of driveline components.

New Holland/717-355-1121
For information, circle 089 or see <http://www.oners.ims.ca/5064-089>



TORO PROCORE

The Toro ProCore 660 aerator, with a 60"-in. width, can cover up to 1.5 acres an hour with 5-in. hole spacing. Designed for large areas, the 880 aerator has 80 in. aerating width for up to 2 acres per hour performance. Both units are tractor mounted and feature the triple belt design for durability and performance in tough soil conditions.

Toro/800-803-8676
For information, circle 090 or see <http://www.oners.ims.ca/5064-090>

FIRST PRODUCTS' VC-60 VERTI-CUTTER

This unit is designed for continuous heavy-duty operation on all sports fields and all types of turf. VC-60's feature a patented swing hitch that allows you to verti-cut around objects while turning without tearing established turf. Cutting depths are adjustable in the field, without tools, using quick release pins on 3/16-in. increments.

First Products/800-363-8780

For information, circle 091 or

see <http://www.oners.ims.ca/5064-091>



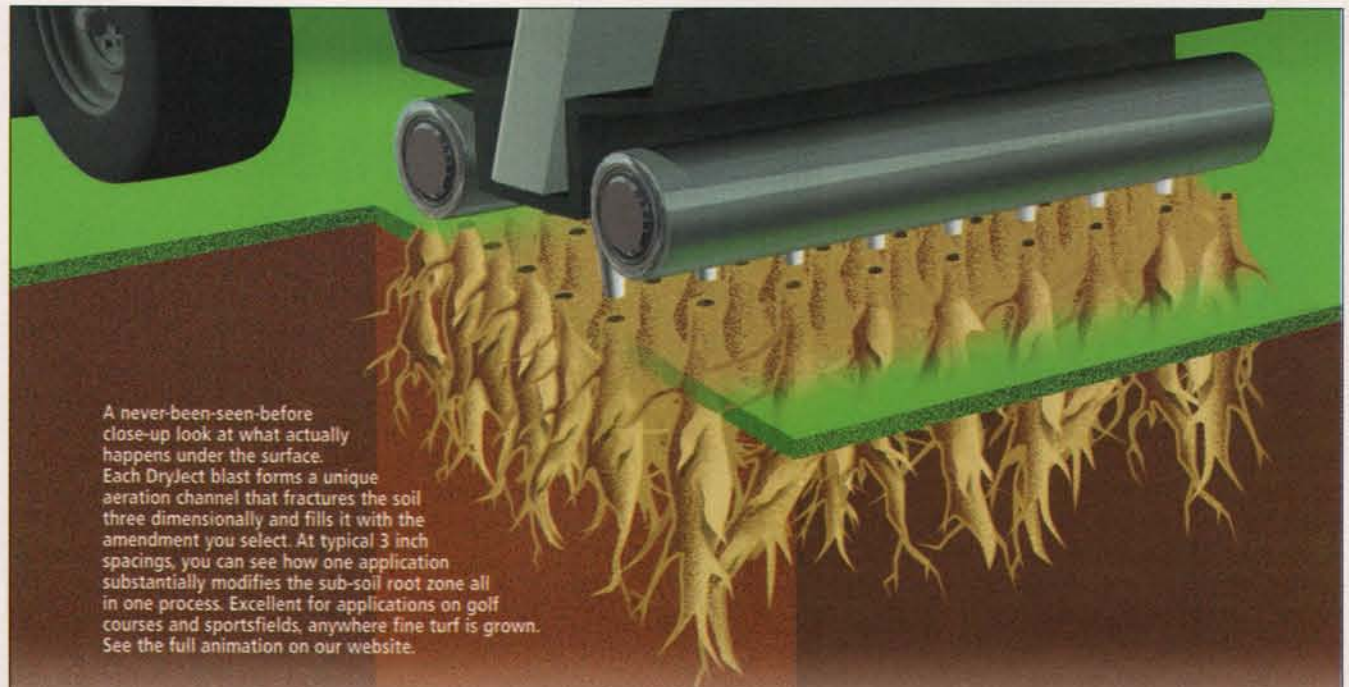
TURFCO DIRECT'S DETHATCHER 20

Constructed of 10-gauge welded steel, and Dethatcher 20 from Turfco Direct is powered by a 5.5-hp Honda engine. It features 52 heavy-duty flail blades to handle thick, heavy thatch. Offering up to 10,000 square feet per hour productivity, the unit's light weight and ball-bearing wheels provide maneuverability, even on rough turf. Depth is controlled by a micro-screw with large plastic grips for tool-free adjustments. A folding handle facilitates transport.

Turfco/800-679-8201

For information, circle 092 or

see <http://www.oners.ims.ca/5064-092>



A never-been-seen-before close-up look at what actually happens under the surface. Each DryJect blast forms a unique aeration channel that fractures the soil three dimensionally and fills it with the amendment you select. At typical 3 inch spacings, you can see how one application substantially modifies the sub-soil root zone all in one process. Excellent for applications on golf courses and sportsfields, anywhere fine turf is grown. See the full animation on our website.

For the first time ever, see the unique aeration and subsurface injection of DryJect®.

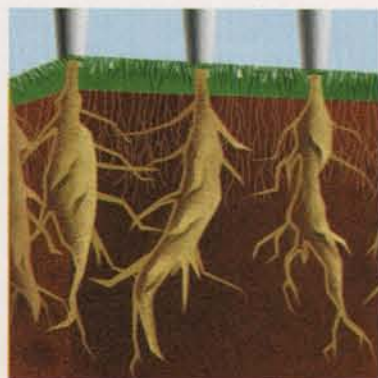
Only DryJect Contractors give you this 3 dimensional, dynamic effect.

DryJect does two unique functions at once. First, as an aerator. Most aeration equipment punches, drills or slits; some pull plugs. Only DryJect aerates three dimensionally-side to side, front to back and even connects hole to hole. There's no glazing of hole walls, broken tines on buried rocks, changing tines or depth concerns of cracking drainage or other buried lines. It's a revolutionary concept using powered water - a patented Venturi process - to open the soil for air, water and amendments in high volume without disturbing the surface.

Secondly, it's the only machine that can inject while aerating. Following a water blast into the turf, it instantaneously injects a selection of flowable dry amendments - sand, peat, diatomaceous earth, calcine clay, zeolites, top dressing, seed, wetting agents, insecticides, or biological products, you select the mix. For root zone modification, DryJect can use about one ton of material per green.

DryJect Service Center Contractors eliminate the traditional need for a crew to drag, fill and remove cores; saving a tremendous amount of labor and time. Some have calculated savings into six figures for a year. What's more, DryJect allows you to start a soil modification program even as part of your regular aeration.

Why own equipment when you can contract for it with an authorized, experienced DryJect Service Center Contractor? With over two dozen territories nationally, there's a dependable DryJect contractor near you. Check out the full animation on our website or phone today for more details, pricing.



Nobody has ever seen before the unique, dynamic pattern of three dimensional channels that are created by a typical DryJect application. The aggressive subsurface changes created allow for air, water and nutrients to feed the root zone like no other system on the market today without disrupting the surface. DryJect has been used on some of the nation's top golf venues including Oakmont, Winged Foot and Merion. Also, the Dallas Cowboys Training Center uses DryJect.

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Contact details for authorized DryJect contractors (franchises) are listed on the web. Interested franchise candidates contact the Administrative Offices at 800-270-8873 or email info@dryject.com.

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SISIS ROTORAKE TM1000

SISIS has developed a tractor-mounted, PTO-driven deep dethatcher/linear aerator with a working width of 39 in., and with floating unit to follow ground contours. With the collector box fitted, the TM1000 will work to a depth of 1 in., or without collection to 2 in. Operating depth is simple and quick to set. A range of blades is available to suit various requirements.

SISIS/864-843-5972

For information, circle 093 or

see <http://www.oners.ims.ca/5064-093>



Association cooperation in New England

Nick Caggiano, park superintendent for the City of Nashua, NH, and vice president of the New England Sports Turf Managers Association (NESTMA), said more than 150 attendees benefited from NESTMA's aligning with the New England Parks Association (NEPA) to present the 2005 Northern New England NEPA Turf Show last June. "Since most of our members live in the lower half of New England most of the training is available there, and it's tough for some members to get to those meetings.

"We hope it will become an annual premier training opportunities for turf managers in New Hampshire, Vermont, and Maine," said Caggiano. "We pooled our resources and membership lists so we'd be inviting anyone who cares for athletic fields. Getting together to discuss common problems is valuable."

NESTMA president David Pinsonneault, public grounds supervisor for the Town of Lexington, MA, is also a member of NEPA. "We've always moved our field days and workshops around the region, and after NEPA had an event the previous year, we wanted NESTMA to tie in to lend our expertise, bring the sports turf element into the ed programs.

"NEPA was good to work with and I think that good partnership will continue in the future," Pinsonneault said.

The group also toured the Double A Portland Sea Dogs' stadium, and met with vendors at a small trade show.

"Marcia Noyes from NEPA had the idea and it was really her program," said Caggiano, who also is a member of the parks association. "It took lots of planning, and Marcia, Lance Tibbetts (STMA Board member from Maine), and Matt Tobin of Pioneer Manufacturing deserve a lot of the credit for pulling it off."

NESTMA became an official chapter of STMA last winter. "We have more than 200 members so the arrangement will benefit both organizations," he said.

The event was held in Portland, Maine at the Portland Expo, with sessions held at Fitzpatrick Stadium, Hadlock Baseball Field and Deering Oaks Park. Despite the cold and damp weather, more than 100 attendees and 28 vendors made their way to the workshop. Turf managers traveled from as far as Nantucket, MA and Hartford, VT. The event also featured delegates from MIT and Boston College.



Marcia Noyes of Yarmouth Community Services, said, "It was very exciting to work on this unique training opportunity with both the NEPA and NESTMA organizations collaborating efforts to provide a positive training experience for the participants in this region."

Matt Tobin added, "We hope to be able to move forward in the future with other collaborative efforts." The planning committee for this event was led by Noyes and featured Tobin, John Barry, Nick Caggiano, Cindy Hazelton, Rick Perruzzi, Joel St. Pierre, and Lance Tibbetts.

Some of the sessions at the Turf Show included multi-purpose grass field diagnosis, rehabilitation and post care; Baseball Field mound building, batter's box maintenance, infields and edging; painting Super Bowl logos on natural grass; painting, paint removal, disinfecting and grooming artificial turf; athletic field lighting design and maintenance; and AA Baseball League Q & A.

At the Multi-purpose Grass Field Diagnosis session, John Mascaro, President of Turf-Tec International, presented a step by step guide to growing healthy athletic turf. John spoke about soil sample analysis, soil compaction analysis, aeration programs, infiltration reading, determining soil moisture percentages and mapping athletic fields for soil moisture. For more information on the topics discussed in John Mascaro's session, visit the Turf-Tec International web site at www.turf-tec.com.

Lance Tibbetts of Windham High School and June Boston of the Boston Company held a session on Multi-purpose field rehabilitation. Their session includ-



ed the following topics: budget constraints, seed vs. sod, equipment to be used, proper aeration techniques, overseeding, topdressing fertility need for renovations, and how to drag, seed and topdress. For more information on this session and the other sessions, contact a member of the planning committee to be directed to the session facilitators. **ST**

Brett Simmons contributed to this article.

BILLY GOAT WHEEL BLOWERS

A 14-blade nylon fan, large radius housing and venturi intake maximizes the incoming air volume and outgoing air velocity. The nylon fan makes the unit easier to start because of its low inertia. Typically weighing 20+ pounds less than competitive units for the same horsepower, the QB is much easier to push through the grass. The Exhaust Director, a patented Billy Goat design, allows you to direct the exhaust air exactly where you want it. This is particularly useful when blowing up or down slopes, up close to the machine, pushing large leaf piles or when working next to cars and new landscaping.

Billy Goat/816-524-9666
For information, circle 060 or see <http://www.oners.ims.ca/5064-060>



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New Moons Rising after Midnight...

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moonbeam
 Excellent dark green color and turf quality with good leaf spot and *Fusarium* resistance. Improved resistance to powdery mildew.

Full Moon
 Kentucky Bluegrass
 Very good heat tolerance with good resistance to stripe rust and stem rust. Seed production fields show very little powdery mildew, which should be a benefit to sod growers.

MOONSHINE
 Kentucky Bluegrass
 Shamrock x Midnight hybrid cross with good stem rust and stripe smut resistance. Excellent, economical blend component.

MIDNIGHTSTAR
 KENTUCKY BLUEGRASS
 Excellent low-mowing and heat tolerance and dark green winter color.

MIDNIGHT II
 KENTUCKY BLUEGRASS II
 Dark blue-green color with medium leaf texture and good year-round color.

PROSPERITY
 KENTUCKY BLUEGRASS
 Very dark green color with fine leaf texture that has good wilt and heat tolerance with less water. Good resistance to stripe rust and leaf spot with improved resistance to powdery mildew.

TURFSEED, INC.

Due to heavy use, the Lincoln Street fields in Lexington, MA were in disrepair despite the well intentioned care of the maintenance staff. With the town's expanding population and increasing participation in recreation programs, the fields had reached a state beyond repair. Countered with the loss of other Town fields to school construction projects, a large-scale renovation project for this multipurpose, three-field complex became a necessity.

One challenge the renovation team faced was location of the fields. Because the project is located on the site of a former capped landfill, it was necessary to mitigate any potential settlement problems by carefully detailing the field profile and specifying non-traditional construction techniques. This included special site preparation techniques featuring deep dynamic compaction and a combination of static and vibratory rolling as well as the inclusion of a special heavy-duty woven geotextile base to mitigate subsurface settlement.

The team of geotechnical and civil engineers led by Geller Sport determined that infilled synthetic turf would be the best option in order to alleviate the stresses placed on the fields due to foot traffic. The newly renovated project, with a price tag of \$3.4 million, includes a new and expanded parking lot to accommodate 232 cars, a tot lot and picnic area, and a fitness and nature trail through adjacent meadows and wetlands. The existing topsoil of the original fields was stripped and reused to create spectator and planting mounds to screen the fields from neighboring residential properties as well as to prevent unwanted vehicles from driving on the synthetic turf. **ST**

