REEMAY
800/321-6271
www.reemay.com
Reemay, Inc.’s Typar TreeCircle is a 35-in. diameter landscape fabric circle that keeps most roots out without inhibiting air, water and nutrients. The company says you won’t have to use chemicals or perform hand-weeding for years after installing it.
Circle #295

ROOTS, INC.
800/342-6173
www.rootsinc.com
New Transplant 1-Step from Roots, Inc., New Haven, CT, is available in a 4-oz. foil pack. Packed 65 in a 4-gal. pail, it contains 17 species of mycorrhiza, plus water-holding gels to give each planting the best chance to survive. In addition, the company’s mycorrhizaROOTS, available as a biostimulant that works well in deep root feeding of trees and shrubs, now has 17 species of mycorrhiza in it. Each 16-oz. bag provides a broad spectrum application of mycorrhiza for increased nutrient uptake, enhanced root systems and plant stress management.
Circle #296

STIHL
800/467-8445
www.stihlusa.com
A whole series of 19 hand-held cutting tools crafted for the professional is available from Stihl, Virginia Beach, VA. The line includes five pruning saws, three pole pruners, three loppers, one hedge shear, four pruners and three axes. Saws come in sizes from 6 to 13 in. All offer blades that can be sharpened or replaced, strong lightweight handles, comfortable grips and computer-designed cutting teeth or blades. Pole pruners offer adjustable pole length, bark cutter and hook.
Circle #297

TREE STAPLE
877/873-3749
www.treestapleinc.com
Tree Staple of Berkley Heights, NJ, says its below-grade tree and shrub stabilization system is safer, stronger and more cost effective than stake and wire. It’s also more aesthetically pleasing since it’s below ground. The company claims that it takes one man with one sledgehammer two minutes to pound the stake into the rootball of the tree to stabilize it.
Circle #298

VALENT
800/898-2536
www.valentpro.com
Control glassy-winged sharpshooter on ornamental plants, shrubs, trees and non-bearing fruit trees with Tame 2.4 EC spray from Valent, Walnut Creek, CA. This insecticide/miticide has a 2(1e) recommendation in California where it was approved to keep glassy-winged sharpshooters from migrating from trees to grapes. It is labeled for application at 10.66 fl. oz. per 100 gallons.
Circle #300

VERMEER
888/837-6337
www.vermeer.com
Designed for large volume wood and yard waste disposal, the TG800 tub grinder from Vermeer, Pella, IA, delivers 800 hp into a gear-reduction, transmission-driven hammermill. The Cat 3412E is an electronic, fuel-injected, twin turbo-charged aftercooled engine. At 11 ft., tub has largest inside diameter in the industry, with a top flare of 13.6 ft. Belly conveyor, a 60-in. belt, operates at 744 ft. per minute. Debris exclusion shroud diverts spillage away from the machine.
Circle #301
Artful way to inlay

This landscape contractor combines art and technology to produce great looking patios

BY YOGITA SHARMA

Johnston's Nursery has been in the landscape design and maintenance business since 1928. Yet the task of building a paved patio with an inlay elk head 16 feet by 20 feet proved to be a challenge for owner Corey Johnston Wise, who not only accomplished this task but also seems to have devised a new inlay technique in the process.

Art in the woods

In the spring of 1999, Wise was assigned the task of installing two patios for a customer who owns a cedar-log house in the forest of northwestern Pennsylvania. Nestled in a 30-acre woodland at the base of a steep hill, this house has a large A-frame room at its center. The front and rear windows of this room overlook the two patios on either side of the house.

The customer wanted to keep with the natural ambience of the log cabin, so Wise presented the idea of creating an elk head silhouette on the lower patio. As work progressed, Johnston's artist created silhouettes of a herd of running deer and a howling wolf for the second patio as well.

Getting to work

For Wise, who had been working with colored pavers for years, this was a large project that offered him an opportunity to do "something really innovative with color inlay." To create the silhouette, Wise used contrasting colors of Stratford concrete pavers, manufactured by R. I. Lampus Co. of Springdale, PA, using Bayer Corporation's Bayferrox synthetic iron oxide pigments. Charcoal tone pavers were chosen for the elk head inlay to provide a sharp contrast to the desert blend pavers used for the background.

The elk head patio was dry-laid and took around two weeks to complete. First, a firm patio base was built by placing geotextile over the subsoil, which was then covered with six to eight inches of compacted aggregates. A one-inch layer of sifted sand was laid over the aggregates before placing three different lengths of interlocking pavers over the entire patio to create a cobblestone effect.

The result was an inlay that looks painted or etched onto the pavers. "The joints are so tight," says Wise, "that people can't believe its an inlay."

The second patio was laid using the same technique. Both patios provide durable and low maintenance pavement that adds to the aesthetic appeal of the house.

The artful elk head patio won second place for concrete pavers in a residential setting at the ICPI National Competition in 2000.

For more information on this technique, contact Johnston's Nursery, P enfield, PA at 814/765-9081 or westwood@penn.com.

COMPANY PROFILE:
Name: Johnston's Nursery
Owner: Corey Wise Johnston
2000 revenue: $1 million
Full-time employees: 12
Customer mix: 100% residential
Service mix: 70% design/build, 30% hortiscaping
Members nationwide agree: PGMS provides the greatest professional networking opportunity for grounds professionals.

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For more information about beginning your membership, fill out the form below and mail today. Or save time and FAX us: 1-410-752-8295. Isn’t it about time?

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Membership Has Its Privileges.

Professional Grounds Management Society (PGMS) invites you to join its ranks and start benefitting from membership in a professional organization dedicated to assisting individual managers. We’ve been growing since 1911, helping to strengthen the educational and economic advancement of professional managers nationwide.

- Local branch meetings
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- Certified Grounds Manager and Groundskeeper Certification programs
- Training manuals
- Who’s Who in Grounds Management membership directory
- Information clearinghouse
- Customized list of courses offered by ICS Learning Systems, the nation’s leader in distance education
- Annual conference and Green Industry Expo
Kudzu quandary

We're having problems managing Kudzu weed. Can we use PBI-Gordon Brushmaster herbicide safely to manage it?

— NC

Kudzu is a severe weed pest in many parts of the southeast. Transline, a selective herbicide by Dow AgroSciences containing clopyralid, can be applied if the Kudzu is growing over desirable, tolerant tree species. Check the supplemental label for examples of tolerant species before applying. Only plants that have emerged at the time of application will be affected and some needle/leaf curling of the desirable species may occur if applied during active tree growth. Another selective herbicide, Brushmaster by PBI-Gordon, can be used where desirable sensitive plants are not involved. Brushmaster is a low-volatile ester formulation containing 2,4-D, 2,4-D-P and Dicamba. Low-volatile ester formulations can volatilize, particularly under high heat conditions, so be careful when treating an area around desirable broadleaf plants. Herbicide applications are most effective between late June and early October, as long as the Kudzu are actively growing and not under drought stress. The ideal application time is just prior to or during flowering. Always read and follow label specifications for best results.

Railroaded by weeds

We're interested in controlling vegetation near a railroad right-of-way for hiking trail clearance. What would be the best way to control all weeds?

— PA

Based on your description, the problem is most likely caused by the juniper tip midge (Oligotropbus betbeli). Adults are a small (1/8-in. long), grayish, mosquito-like fly. This is a true native fly. The larvae are 3/16-in. long maggots which mine inside needles and cause small galls. Several generations can be produced during the growing season. It then overwinters in the terminal tip galls.

When making a diagnosis, look for .25- to .5-in. long terminal buds on the outer foliage. Gently break open the tips and examine for evidence of mining and possibly the presence of reddish insects (maggots). They may also be in the pupal stage. Throughout the winter months, larvae can be found in tip galls. These galls are formed as a result of midge maggots mining in several needles at the bud tips. These galls are about the size of normal buds. Galls will remain green until the larvae begin to mature, then turn red and eventually become brown.

If it isn't severe, selectively prune infested tips and discard during dormant season. In heavy infestations, consider treating with insecticides such as Acephate or Dimethoate. Treat around mid-May and again around mid-June, early August and mid-September as needed.

If the problem is due to fungal blights such as juniper tip blight (caused by Phomopsis sp.) or Kabatina blight (caused by Kabatina sp.), larger portions of the tissue will be discolored and, as the disease progresses, fungal fruiting bodies will be found upon incubation in labs. Accordingly, treatment can be provided to manage these. Read and follow label specifications for best results.
LandscapeManagement.net

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**Tight walkin'**
Sutech says its Stealth mower, a 33-in. walk-behind, is lightweight and maneuverable and can get into tight areas and trim around anything. The deck is made of 11 gauge fabricated steel, and mower has mulching and cutting capabilities. Other features include zero-turn radius and three forward ground speeds.

For more information contact Sutech at 888/536-8368 or visit www.sutechusa.com / circle no. 250

**Strength with support**
Tree-Mate-O permits a newly planted tree to achieve proper development. It was made to encourage greater caliber and quicker root strength. When it is attached to a single "T" or "U" post, a torsion bar effect improves the post's ground gripping action. Tree-Mate-O is for all types of trees up to 2 in. in diameter.

For more information contact T-Mate-O at 812/256-1069 or visit www.treesupports.com / circle no. 251

**Fun in the sun**
Irritrol Systems' SPC-2 converter allows the company's battery-operated IBOC Plus Series hybrid controllers to run on solar power. It can be mounted either on top of the controller or up to 1,000 feet away, and contains a three-year, maintenance-free gel cell battery.

For more information contact Irritrol at 909/785-3625 / circle no. 252

**Brush it away**
Geo-Boy's brush cutter tractor, featuring a Cummins diesel engine and Seppi cutter heads, is designed for clearing brush and small trees in difficult locations. It's available in standard and heavy duty models.

For more information contact Geo-Boy at 800/436-2691 or visit www.geo-boy.com / circle no. 254

**Precise coring**
Textron says its Ryan Lawnaire 28 aerator offers the precision technology of golf course aerators in a machine designed for professional lawn care. The reciprocating, crankshaft-mounted tines produce precise vertical coring. With zero-turn radius maneuverability, the Lawnaire 28 has a 28-in. aerating width and covers up to 24,000 sq. ft. per hour.

For more information contact Textron at 888/922-8873 or visit www.textron turf.com / circle no. 253

**Rad rake**
Billy Goat Industries' CR Series compact power rake is engineered with fewer parts and less hardware mounted on a steel deck to reduce noise, vibrations and maintenance.

For more information contact Billy Goat at 816/524-9666 or visit www.billygoat.com / circle no. 255

**Collect 'em up**
The ODB Co.'s Metro is a belt-driven vacuum leaf collector with a rear loading unit and hydraulic hose boom. It features a John Deere Model 4020D 4-cylinder water-cooled diesel engine and 14-in. x 120-in. wire reinforced urethane suction hose.

For more information contact ODB at 800/446-9823 or visit www.theodbco.com / circle no. 258

**Capable cart**
Bachtold Bros.' commercial duty cart wagon has the ability to hold 400 lbs. and up to 5 cu. ft. of material. It has a 14 gauge stainless steel body, angled front and 20-in. nickel-plated wheels. For extra heavy hauling, the handle of the cart converts to a wagon tongue so it can be pulled along by a tractor or riding mower.

For more information contact Bachtold Bros. at 217/784-5161 or visit www.bachtoldbros.com / circle no. 259
Light up the night
Sculpturite lighting by Pinecrest can be mixed and matched to suit your tastes. Many of Pinecrest's lighting posts are triangular in configuration. Each design is first carved into hardwood, then used to form the sand molds into which aluminum is cast.
For more information contact Pinecrest at 800/443-5357 or visit www.pinecrestinc.com / circle no. 260

Floodlight fun
RAB Electric Manufacturing's "H101" is a landscape floodlight with a bell design made for easier relamping and glare reduction. The new floodlight has durable one-piece die cast construction with rugged mounting arm. It accepts 150 watt PAR 38 lamp maximum. The fixture also has a large silicone gasket to provide weatherproof protection around the lamp and socket.
For more information contact RAB Electric Manufacturing at 201/784-8600 / circle no. 261

Keep tools neat
Intromark Incorporated introduces Tool Hugger, a new tool holding clamp that is mounted and used to hang anything from tools to sports equipment. It is constructed of zinc coated steel, flexible steel cables encased in rubber, and can hold objects weighing up to 50 lbs.
For more information contact Intromark Inc at 800/851-6030 / circle no. 263
Andrews 5x7 to 1/2x1/2 7x10 to 1/2x1/2 2 1/2 x 1 1/2
Get a grip
Bahco Tools has come up with the PX and PXR ergonomic hand pruners. Key benefits of these pruners are less fatigue and a more productive working life. There is a choice of cutting heads that allows the user to adapt pruner to the diameter of plant material being pruned.

For more information contact Bahco Tools at 800/387-8295 or visit www.bahco.com / circle no. 264

Hedge hacker
Stihl's HL 73 is an extended-length hedge trimmer with an adjustable angle cutting head that maneuvers from 0 to 90 degrees. The HL 73 can also convert into a broom or power scythe with additional interchangeable attachments. The trimmer is built with a stratified charge engine and a solid shaft drive that transfers more power from the engine to the cutting head.

For more information contact Stihl at 800/467-8445 or visit www.stihlusa.com / circle no. 265

No tearing here
Vermeer Manufacturing Co. claims its SC50TX stump cutter doesn’t tear up the ground as it goes. It has a 50-hp Caterpillar 3024 diesel engine that allows it to travel from 18 to 110 ft. per minute. Also, it can cut 17 in. deep and 70 in. wide.

For more information contact Vermeer at 888/837-6337 or visit www.vermeer.com / circle no. 266

Curtain call
Rain Cane is a sprayer that sprays a high volume curtain of water for more gentle and accurate watering of flower beds, seedlings and flats. The company claims users will have less wrist soreness and frustration when using Rain Cane. Watering wands are available in 18-in., 9-in., heavy foliage and hanging basket sizes.

For more information contact Rain Cane at 970/495-0389 or visit www.raincane.com / circle no. 267

The reel deal
The Hannay GHAT1200 reel, made by Hannay Reels is engineered for portable use in grounds maintenance and features a permanent direct crank rewind. It operates at pressures to 1000 psi and temperatures from -80°F to +185°F.

For more information contact 877/467-3357 or visit www.hannay.com / circle no. 268

Time to excavate
Caterpillar’s 320C L utility hydraulic excavator is ideal for use in urban construction areas and other space-restricted sites. The 320C L has net power of 138 hp produced by a Cat 3066 turbocharged, six-cylinder diesel engine. It also has the advantage of a smaller swing radius. Features include automatic boom and swing priority functions.

For more information contact Caterpillar at www.cat.com / circle no. 269

Retaining beauty
Versa-Lok's Cobble retaining wall system undergoes a special manufacturing process to achieve an aged look that closely resembles old-world cobblestone. The company claims that it is ideal for landscaping projects such as retaining walls, planters, and elevated patios. The Cobble units are 6 in. high, 8 in. wide and are easily assembled without mortar.

For more information contact Versa-Lok at 800/770-4525 / circle no. 270

continued from page 67

continued on page 71
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This card is void after November 15, 2001

I would like to receive (continue receiving)
Landscape Management free each month:

<table>
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<tr>
<th>Yes</th>
<th>No</th>
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My primary business at this location is: (fill in ONE only)

<table>
<thead>
<tr>
<th>CONTRACTORS/SERVICE COMPANIES</th>
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<tbody>
<tr>
<td>Landscaping/Soil Contractors</td>
</tr>
<tr>
<td>Fence &amp; Hardscape Installation</td>
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<tr>
<td>Landscape Maintenance</td>
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<tr>
<td>Irrigation Systems</td>
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<tr>
<td>Ornamental Landscape Services</td>
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</tbody>
</table>

**LANDSCAPING/GROUNDS CARE FACILITIES**

| 05 | 20 Sports Complexes |
| 06 | 235 Parks |
| 07 | 305 Schools, Colleges & Universities |
| 08 | 306 Other Grounds Care Facilities (specify) |
|    | 307 Other (please specify) |

2. Which of the following best describes your title? (fill in one only)

| 10 | Executive/Administrator - President, Owner, Partner, Director, General Manager, Chairman of the Board, Purchasing Agent, Director of Physical Plant |
|    | Manager/Superintendent - Architect, Landscape/Grounds Manager, Superintendent, Foreman, Supervisor |
|    | Government Official - Government Commissioner, Agent, Other Government Official |
|    | Specialist - Forester, Consultant, Agronomist, Pilot, Instructor, Researcher, Horticulturist, Certified Specialist |
|    | 50 Other Titled and Non-Titled Personnel (please specify) |

3. SERVICES PERFORMED (fill in ALL that apply)

| 10 | A Mowing |
|    | 22 B Turf Fertilization |
|    | 23 C Turf Disease Control |
|    | 24 D Tree Care |
|    | 25 E Turf Aeration |
|    | 26 F Landscape Design |
|    | 27 G Snow Removal Equipment |
|    | 28 H Fertilizers |
|    | 29 I Graders |
|    | 30 J Spreaders |

4a. Do you specify, purchase or influence the selection of landscape products?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
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4b. If yes, indicate which products you buy or specify: (fill in ALL that apply)

| 10 | 10 A Aerators |
|    | 20 B Herbicides |
|    | 30 C Knapsacks |
|    | 40 D Backpacks |
|    | 50 E Sprayers |
|    | 60 F Spreader Spreader Trucks |
|    | 70 G Utility Vehicles |

5. Do you have Internet access?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
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5a. If so, how often do you use it?

<table>
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<tr>
<th>Daily</th>
<th>Weekly</th>
<th>Monthly</th>
<th>Occasionally</th>
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<td>60</td>
<td>30</td>
<td>10</td>
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Save TIME and fax it:
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