

An up and down situation

Elevation changes and water-specific plantings made for one tough irrigation project

BY JASON STAHL /
MANAGING EDITOR

Blaschka and Heidvogel, along with the engineers at Watertronics pumping systems, based in nearby Hartland, WI, designed a 7.5-hp pump station using what's known as programmable logic control. The station can sense and adjust flow and pressure to meet the requirements of different turf and landscape areas on the estate. Some plants need more water than others, and at different times of the day.

"The potted plants around the pool needed water multiple times per day because the pots are clay and black and get very hot from the sun. We needed to water them not only to keep them

continued on page 72

Rick Heidvogel and Brian Blaschka regularly install irrigation systems at estates with homes valued from \$800,000 to \$3 million. The two are partners in The Lakeland Group of Nashotah, WI, specializing in irrigation, lighting and landscape management.

Nevertheless, a \$1.8 million estate in nearby Oconomowoc, in the "Lake Country" area in southeastern Wisconsin, challenged their ingenuity. The 6-acre estate had elevation changes of up to 65 ft. It also contained large turf areas, annual beds, perennial beds and hanging potted plants.

Rather than irrigating the grounds from a well, the property uses the adjacent lake for its source of water, something that Heidvogel began perfecting in 1990 when he started the company.

To a higher level

"This required obtaining a pump station to distinguish between high-flow pressure demands and low-flow pressure demands," explains Heidvogel. "But pump stations don't like to see such a wide range of performance, so we had to figure out how to take technology to a higher level."



This 7.5-hp pump station distinguishes between high-flow and low-flow pressure demands.

continued from page 71

alive but keep them cool," Blaschka explains.

"The small grass areas around the steppers also needed to be put on a daily watering schedule. We ended up putting all the small demand beds and little turf areas on separate zones based on plant life, shade and other factors. It was costly, but it worked perfectly," he says.

The owner of the estate didn't want any water to get on the steppers, so Blaschka and Heidvogel turned to Netafim drip irrigation for precise watering. "We chose this product because it has worked well for us, and we knew we could bury it under the turf around the steppers," Blaschka says. "Also, we had the ability to

"Pump stations don't like to see such a wide range of performance."
— Rick Heidvogel

punch into the drip with emitters that allowed us to run tiny tubes up into each individual potted plant around the pool area."

Blaschka and Heidvogel ended up installing a sophisticated, \$30,000 irrigation system with a pump station that could handle both high pressure/flow needs and low pressure/flow needs. Also, drip irriga-

tion and line emitter tubing helped the pair get water to where it was needed with no waste. **LM**

Company profile

Total revenue:

\$1.1 million

Staff:

6 full-time, 15 seasonal

Business breakdown:

62% — irrigation construction and business

20% — landscape lighting

18% — landscape management

The Landscape Management Handbook

The best single-source reference containing the most current and comprehensive information on the basics of turfgrass and landscape management available today!



edited by William E. Knoop

125 pages, softcover • Item #LSMB830

\$24⁹⁵ plus shipping/handling

- ✦ Provides an overall understanding of turf and landscape care and management and covers all the basics of the green industry
- ✦ Covers all the topics golf course superintendents and students of turfgrass and landscape management need to know
- ✦ Combines practical information with the tried and true basics of management to provide a single, practical, affordable and up-to-date text
- ✦ Features detailed information, charts, diagrams, figures and tables to illustrate key information points

The Landscape Management Handbook provides a unique, single-source reference of comprehensive information on a variety of turf and landscape topics. It's an ideal handbook for golf course and lawn care superintendents and crew members, and is also appropriate for schools that teach basic turf and landscape management.

Call 1-800-598-6008

Fax: 218-723-9146 • Outside the U.S. 218-723-9180

Order on-line at www.landscapegroup.com

Please mention code H-LM when ordering

950854

ask the expert

BY BALAKRISHNA RAO

Transplant shock

I planted 10 five- to eight-ft. white pines last spring, and all summer I watered them with a drip hose and saw some new growth. By October some of the needles on all of the trees were turning yellow. What should I do?

— VIRGINIA

The yellowing and dropping of some of the needles in all plants appears to be related to transplant shock. Most transplanted plants, because their absorbing roots have been cut off and lost in the original growing area, experience transplant shock. They need to reproduce new absorbing roots and readjust to new sites. They also need to be watered well during this period. Too little watering can cause drought effects and too much watering can cause needles to turn yellow. The key is to keep the area moist all through the planting and establishment period. The recovery may take four to five years for a 1- to 3-in. trunk caliper size plant, and a 4-in. and above plant may recover in five to ten years.

Some fertilizers such as a quick release source of nitrogen can burn the absorbing roots if overused.

Other causes of yellowing and defoliation include root rot diseases, drought or natural causes. Normally, three-year-old needles do become yellow and drop. Study the plants and see if any of the one- to two-year-old needles are showing symptoms.

Since these plants are under stress, it is a good idea to protect them with borer treatments using insecticides such as Dursban or Astro. Also, reduce stress by improving plant health through mulching, watering and fertilizing as needed.

Unwanted vegetation

Which is the best herbicide to control/eliminate unwanted vegetation like banyan trees and allied plants, which sprout beside buildings and even occur in cracks near buildings which damage the masonry, structure and brick work?

— INDIA

Glyphosate 41% SL (Roundup) is one of the best ways to manage these undesirable sprouts. Another option is to use Picloram (sold as Tordon in the United States), Trichlopyr (known as Garlon) or clopyralid from Dow AgroSciences. These products may be sold under different names in India. Make sure they are labeled for this specific use. If not, test these products on a small area with proper permission. Treat plants when they are actively growing.

Another possibility is to use Arsenal herbicide from American Cyanamid Co., which can be sprayed over the sprouts or applied by hand with the cut-stem method. Again, make sure that the product is legal to use.

For small plants (sprouts), one application may be sufficient. However, for large plants, multiple treatments may be needed.

If the problem in and around the building is not too severe, mechanically removing the young seedlings as they sprout can reduce future problems.

Injured buds

We have a large, mature sycamore on a client's property that has been slow to foliate this year. We noticed that the leaf buds formed, but never sprouted

into full grown leaves and appeared dead. What can we do to help this beautiful tree?

— OHIO

The "slow to foliage" problem is probably because the buds are damaged. The buds were formed last year and were injured some time before bud break.

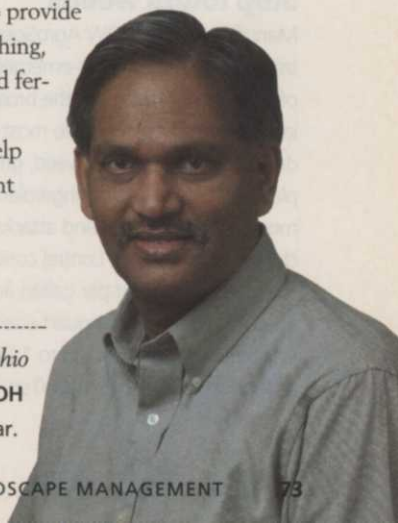
The damage could be from frost. If the buds broke dormancy before the last frost, the exposed plant parts could have been injured. However, the trees will refoliate by using the stored energy. If it happens year after year, this process can weaken the plant by depleting reserve energy of the plants.

The damage could also be from an early season leaf disease like sycamore anthracnose. This disease can be active under cool moist periods during spring. The fungus produces spores in previous years' cankers, infects the buds and causes bud blight. From there it infects leaves and causes leaf blight. Next, it causes twig blight and produces cankers.

Provide selective pruning as needed. When dry, disinfect the pruning tools between cuts. For anthracnose disease management, provide fungicide treatments such as Cleary's 3336 or trunk inject with Arbotech fungicides. Follow good injection guidelines to obtain good results. Also provide proper mulching, watering, and fertilizing as needed to help improve plant health.

Manager of Research and Technical Development for the Davey Tree Expert Co., Kent, Ohio

SEND YOUR QUESTIONS TO: "Ask the Expert" Landscape Management; 7500 Old Oak Blvd.; Cleveland, OH 44130, or email: sgibson@advanstar.com. Please allow two to three months for an answer to appear.



products

TECH CENTER

No more core cleanup

The Grasshopper Company's new Aeravator makes core cleanup a thing of the past and leaves your turf available immediately after use. Its oscillating, forged steel tines penetrate and



fracture the soil, and it requires no irrigation prior to operation. It comes available in PTO-driven 40- and 60-in. models.

For more information call (316) 345-8621 / circle no. 250

A real gas

The W.E. gas cap guard, which fits both walk-behind and ZTR/riding mower gas tanks, prevents tampering with or theft of gas. It's also easy to install with ready access for the operator.

For more information call 904/761-2427 or visit www.wechapps.com / circle no. 251

Stop tough weeds

Manufactured by DOW AgroSciences LLC, Lontrel T&O, a selective post-emergence herbicide, offers superior control of the broadleaf weeds landscape professionals see most — clover, dandelion, thistle, dollarweed, groundsel and plantain. Lontrel's active ingredient, clopyralid, moves through plants and attacks all parts, including root systems. Lontrel contains 3 lbs. of the active ingredient per gallon and is packaged in a tip-and-pour quart-sized container. Applications vary from .25 to 1.33 pints per acre or up to .5 oz. per 1,000 sq. ft.

For more information contact Dow at info@dowagro.com or 1-800-263-1196 / circle no. 252

Hedge and prune

Shark Corp.'s YardShark telescopic hedger/pruner combines precision-ground cutting blades with a lightweight handle that changes its length for cutting high tree



canopies or reaching into thorny vegetation. With a single-handed flip of a lever, it grows from 31 to 46 in. so the user never has to change tools.

For more information call 800/777-5538 or visit www.sharksaw.com / circle no. 253

Speedy aeration

The Ryan Lawnaire is perfect for lawn care professionals and rental equipment operators who require core-type aeration at a high rate of speed. The self-propelled aerator features a 19-in. aerating width and covers up to 21,000 sq. ft. per hour. It can penetrate up to a depth of 2.75 in. with the added weight bar and full

Portable spreader

SOLO's new portable spreader can spread ice melters, oil absorbers, sand, fertilizers, and seed and cleaning agents over irregular terrain more conveniently than a wheeled spreader. A built-in agitator and propeller operation eliminates blockages and improves uniformity of spread. It offers up to 20 lbs. of capacity and weighs only 5.5 lbs.

For more information call 757/245-4228 or visit www.solo.usa.com / circle no. 256

roller drum. It comes equipped with 0.75-in. diameter tines.

For more information call 888/922-TURF / circle no. 254

Along the curb

Borderline Stamp USA's curb machine can extrude low or line voltage lighting directly into



the concrete curbing to enhance landscapes at night. Borderline also offers many types of landscape curbs that can be textured in a wide variety of patterns.

For more information call 888/999-6641 or visit www.borderlinestamp.com / circle no. 255

Pneumatic seeder

RotaDairon's pneumatically powered, multi-purpose combination soil renovator and seeder uses an air-assisted seed delivery system to save labor and enhance the performance of the unit. Models come in 10- and 13-ft. wide versions.

For more information visit www.mge-da-iron.com / circle no. 257



Flower/foilage food

Simplot Turf and Horticulture's APEX Flower and Foliage controlled-release fertilizers come in four different formulations — 19-5-12, 19-6-12, 18-6-12, and 17-5-11. Featuring Polyon controlled-release coating technology, they provide nutrient longevity from three months up to 16 months. Additionally, all of the nutrients in the new APEX Flower and Foliage line, including magnesium and micronutrients, are uniformly combined in homogeneous granules to ensure each one contains the same elements. **For more information on APEX Flower and Foliage call 800/992-6066 or visit www.sim-plot.com / circle no. 258**

Spray it

Otterbine's Concept2 line of aerators handle surface spray aeration needs for ponds and lakes: the High Volume2 unit has the highest pumping rate per horsepower of any aerator on the market and provides maximum work with minimum appearance. The Sunburst2 offers both aesthetic enhancement and aeration. The Phoenix2 offers a dual spray pattern. All Otterbine aerators come with 50 ft. of cable, a power control center and a warranty. **Contact Otterbine at 800/237-8837 or www.otterbine.com / circle no. 259**

Shoot for the sky

AquaMaster's Celestial Fountains can produce spray patterns up to 100 ft. in horsepowers from 10 to 25. They feature oversized flotation tires for easy launching, polyethylene, in-water adjustable floats, stainless steel frame with 16-gauge stainless steel intake screen, electrical control panel, 100 ft. of underwater cable, cable disconnect and interchangeable nozzle. An optional 500-watt stainless steel halogen lighting



system is also available.

Contact Aquamaster at 920/693-3121 or www.aquamasterfountains.com or circle no. 260

Low pressure rotor



Hunter Industries' I-60 is a low precipitation turf rotor that provides 50 to 66 ft. of irrigation coverage for parks, sports fields and other areas where low water pressure is a concern. It's designed to operate at 40 to 60 psi, doesn't require a booster pump, has a 3-in. pop-up height and is available as a full circle or adjustable arc (40° to 360°) model.

Hunter Industries can be reached at 800/733-2823 or www.hunterindustries.com / circle no. 261

Trimming flexibility

Echo Inc.'s curved shaft hedge clipper has a 7° bend in the shaft at the gearcase end which allows operators to trim complex shapes while standing comfortably at the base of a tall hedge. A 51-in. shaft allows operators to trim tall hedges without using chairs or ladders. Other features include a 23.6cc commercial-duty, dual-ring piston engine and 20-in. double-sided, double reciprocating blades with a 10% increase in speed.

For more information call 847/540-8400 or visit www.echoincorporated.com / circle no. 262

Pelletized compost

Now it's a breeze to apply compost with Planet Green's concentrated pelletized compost. These light, clean pellets can be applied with conventional drop or broadcast spreaders. Planet Green's compost offers a consistent 2-2-3 analysis with 6% calcium and 1% iron. **For more information contact Planet Green at 888/425-2827 or www.planetgreen.com / circle no. 263**

Calibration made easy

The PrizeLawn AccuRate Calibrator is designed to make rotary spreader calibration easy, practical and accurate. A materials collection box with an easily removable receptacle pan, it prevents granules from escaping and falling to the ground during the calibration process.

For more information contact the PSB Co. at 614/228-5781 or www.psbcompany.com / circle no. 264

Sharp tools

Lowell Corp.'s pruners and brush cutters come in three models, two heavy duty brush cutters and one point cut pruner. The Forester models come in two sizes, 27-in. long, 4 5/8 lbs., cutting capacity of 1 1/2-in.; and 34-in., 7 3/4 lbs., designed to cut 2-in. material. Composite grips provide cushioning for the hands while minimizing slippage. The point cut pruner can cut right down to its tips with minimal handle spread, reducing worker fatigue. The handles open wide for capacity cuts of material up to 1 1/4-in. thick.



Contact Lowell at 800/456-9355 / circle no. 265

Weed control

Compared to plastic film and laminated landscape fabric, GCI Professional Landscape Fabrics allow air and water to pass through to plant roots, ensuring healthy growth. They're perfect for weed control in container fields and greenhouse floors, landscape bed designs/tree planting, and as a filter fabric for trench drains. Use them to not only control weeds but stabilize soil under paving stones and prevent soil loss and erosion behind retaining walls.

For more information contact GCI Industries at 800/560-4GCI / circle no. 266

continued on page 76

products

continued from page 75

Rugged trailer

ShoreLand's trailer boasts a 1,400-lb. capacity. The deck measures 52 in. x 100 in. and is made of 5/8-in. premium grade plywood. Stake pockets along the frame accept 2 in. x 4 in. uprights



for side rails or provide convenient tie down points. A full axle and leafspring suspension make for smoother towing, molded fenders protect cargo from road debris, and built-in, anti-skid step pads in front and back allow convenient entry. Another feature is the rear gate/ramp that allows workers to drive an ATV, golf cart or riding lawnmower right onto the bed.

Visit ShoreLand's Web site at www.shorelandr.com / circle no. 267

In the clutch

DewEze Mfg. has come out with a clutch pump mounting kit for the 1999-2000 model Ford Super Duty with the 5.4L and 6.8L Triton engines. This new kit incorporates the Ford approval "Spider Mount" in its design, which meets Ford's requirements to maintain engine warranty in the mounting of accessories. Like all DewEze kits, this is serpentine drive with an automatic belt tensioner. The bracket is a one-piece hardened aluminum casting that is CNC machined for exact fit.

For more information contact DewEze at 800/835-1042 or www.deweze.com / circle no. 268

No more weeding

Fabriscap's 2 oz. spunbond commercial weed stopper fabric stops 95% of weed growth, lets

air, water and fertilizer pass through to plant roots, and is permanent when covered from sunlight. As a filter fabric, it protects native soil and silt from clogging drainage septic systems, offers drainage protection to maintain flow and percolation, and prolongs the life of septic drain fields and drainage pipes.

For more information contact Fabriscap at 800/992-0550 or www.fabriscap.com / circle no. 269

Bye bye nutgrass

Lawn and Garden Products says that the Nutgrass Nihilator controls yellow nutgrass by killing nutlets instead of burning down just the top of the plant. Apply it with an oil concentrate like Herbicide Helper, which assists in the herbicide getting into the inner tissue of the weed.

Contact Lawn and Garden Products at 559/499-2100 or www.montereylawngarden.com / circle no. 270

Sweepin' it all away

A broom? Attached to a truck? Believe it, because TrynEx now has the Pro-Broom Truck Mount. Attachable to most brand name snowplows, the broom is built with a 90-in. mainframe constructed of 10-gauge hot-rolled pickled steel. Eight poly brush rows and a dual-angle hood helps tackle tough material or push heavy objects. No moving parts eliminates the need for cleaning and lubrication of sprockets and bearings. The Pro-Broom Truck Mount also comes in a 48-, 60- and 72-in. mainframe sizes.

Contact TrynEx International at 800/725-8377 / circle no. 271

Herbicide enhancer

Precision Laboratories says its new product, Delux, will enhance the performance of generic glyphosphate and certain postemergence herbicides on hard-to-control weed species. It's a biodegradable activator surfactant and ammonium sulfate premix that ties up antagonistic hard water ions and providing ammonium ions for improved herbicide uptake. Delux comes in 2.5-gal. containers.

Call Precision Control at 847/498-0800 x33 / circle no. 272



Easy mower blade removal

Aggravating mower blade removal is history thanks to the Blade Buster, which clamps onto the mower deck and locks the blade in a stationary position for safe and easy removal. It works on both push and riding mowers and is made of heavy duty steel.

Call DesignLife Products at 847/266-7783 / circle no. 273

Spread the news

Gandy Company says that its spreader models 36H13FR and 42T16FR are approved for use with PennMulch seed establishment mulch. Independent university tests showed that the spreaders can evenly spread PennMulch, making it even more useful to turf professionals, says Gandy.

For more information call 800/443-2476 / circle no. 274

Aquatic herbicide

Avast! from Griffin L.L.C. is a slow-acting aquatic herbicide selectively effective on target species, allowing desirable vegetation to be reestablished without oxygen deprivation or fish kill. Avast! continues to control problem weeds for up to 12 months with minimal risk to the aquatic environment. It is available for sale as a flowable liquid formu-

continued on page 79

Receive **FREE** information on products and services advertised in this issue.

Landscape MANAGEMENT

July 2000

This card is void after September 15, 2000

I would like to receive (continue receiving)
LANDSCAPE MANAGEMENT free each month:
 Yes no

NAME (please print) _____
 TITLE _____
 FIRM _____
 ADDRESS* _____
 CITY _____ STATE _____ ZIP _____
 *Is this your home address? Yes No
 PHONE (____) _____ FAX (____) _____
 E-MAIL ADDRESS _____
 Signature: _____ Date: _____

1. My primary business at this location is: (fill in ONE only)
CONTRACTORS/SERVICE COMPANIES
 255 Landscape Contractors (Installation & Maintenance)
 260 Lawn Care Service Companies & Custom Chemical Applicators (ground & air)
 285 Irrigation Contractors & Consultants
 Other Contractors/Service Companies (please specify) _____

LANDSCAPING/GROUNDS CARE FACILITIES
 290 Sports Complexes
 295 Parks
 305 Schools, Colleges & Universities
 Other Grounds Care Facilities (specify) _____

SUPPLIERS AND CONSULTANTS
 355 Extension Agents/Consultants for Horticulture
 360 Sod Growers, Turf Seed Growers & Nurseries
 365 Dealers, Distributors, Formulators & Brokers
 370 Manufacturers
 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
 20 **Manager/Superintendent** - Arborist, Architect, Landscape/Grounds Manager, Superintendent, Foreman, Supervisor
 30 **Government Official** - Government Commissioner, Agent, Other Government Official
 40 **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)
 A Mowing F Turf Fertilization K Paving, Deck & Patio Installation
 B Turf Insect Control G Turf Disease Control L Pond/Lake Care
 C Tree Care H Ornamental Care M Landscape Installation
 D Turf Aeration I Landscape Design N Snow Removal
 E Irrigation Services J Turf Weed Control O Other (please specify) _____

4a. Do you specify, purchase or influence the selection of landscape products?
 Yes No

4b. If yes, indicate which products you buy or specify:
 (fill in ALL that apply)
 1 Aerators 8 Herbicides 15 Sweepers
 2 Blowers 9 Insecticides 16 Tractors
 3 Chain Saws 10 Line Trimmers 17 Truck Trailers/Attachments
 4 Chipper-Shredders 11 Mowers 18 Trucks
 5 De-icers 12 Snow Removal Equipment 19 Turfseed
 6 Fertilizers 13 Sprayers 20 Utility Vehicles
 7 Fungicides 14 Spreaders

5. Do you have Internet access? A Yes B No
 5A. If so, how often do you use it?
 A Daily B Weekly C Monthly D Occasionally

101	113	125	137	149	161	173	185	197	209	221	233	245	257	269	281	293	305
102	114	126	138	150	162	174	186	198	210	222	234	246	258	270	282	294	306
103	115	127	139	151	163	175	187	199	211	223	235	247	259	271	283	295	307
104	116	128	140	152	164	176	188	200	212	224	236	248	260	272	284	296	308
105	117	129	141	153	165	177	189	201	213	225	237	249	261	273	285	297	309
106	118	130	142	154	166	178	190	202	214	226	238	250	262	274	286	298	310
107	119	131	143	155	167	179	191	203	215	227	239	251	263	275	287	299	311
108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312
109	121	133	145	157	169	181	193	205	217	229	241	253	265	277	289	301	313
110	122	134	146	158	170	182	194	206	218	230	242	254	266	278	290	302	314
111	123	135	147	159	171	183	195	207	219	231	243	255	267	279	291	303	315
112	124	136	148	160	172	184	196	208	220	232	244	256	268	280	292	304	316

Save TIME and fax it:
4 1 3 - 6 3 7 - 4 3 4 3

AN ADVANSTAR PUBLICATION
 ©2000 Advanstar Communications Inc. All rights reserved.



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

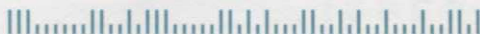
BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO 950 PITTSFIELD MA

POSTAGE WILL BE PAID BY ADDRESSEE

Landscape MANAGEMENT

ADVANSTAR COMMUNICATIONS INC
 PO BOX 5054
 PITTSFIELD MA 01203-9697





NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO 950 PITTSFIELD MA

POSTAGE WILL BE PAID BY ADDRESSEE

**Landscape
MANAGEMENT**

ADVANSTAR COMMUNICATIONS INC
PO BOX 5054
PITTSFIELD MA 01203-9697



**Landscape
MANAGEMENT**

July 2000

This card is void after September 15, 2000

I would like to receive (continue receiving)
LANDSCAPE MANAGEMENT free each month:
 Yes no

NAME (please print) _____
 TITLE _____
 FIRM _____
 ADDRESS* _____
 CITY _____ STATE _____ ZIP _____
 *Is this your home address? Yes No
 PHONE (____) _____ FAX (____) _____
 E-MAIL ADDRESS _____
 Signature: _____ Date: _____

1. My primary business at this location is: (fill in ONE only)

CONTRACTORS/SERVICE COMPANIES

- 255 Landscape Contractors (Installation & Maintenance)
- 260 Lawn Care Service Companies & Custom Chemical Applicators (ground & air)
- 285 Irrigation Contractors & Consultants
- Other Contractors/Service Companies (please specify) _____

LANDSCAPING/GROUNDS CARE FACILITIES

- 290 Sports Complexes
- 295 Parks
- 305 Schools, Colleges & Universities
- Other Grounds Care Facilities (specify) _____

SUPPLIERS AND CONSULTANTS

- 355 Extension Agents/Consultants for Horticulture
- 360 Sod Growers, Turf Seed Growers & Nurseries
- 365 Dealers, Distributors, Formulators & Brokers
- 370 Manufacturers
- 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
- 20 **Manager/Superintendent** - Arborist, Architect, Landscape/Grounds Manager, Superintendent, Foreman, Supervisor
- 30 **Government Official** - Government Commissioner, Agent, Other Government Official
- 40 **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)

- A Mowing
- B Turf Insect Control
- C Tree Care
- D Turf Aeration
- E Irrigation Services
- F Turf Fertilization
- G Turf Disease Control
- H Ornamental Care
- I Landscape Design
- J Turf Weed Control
- K Paving, Deck & Patio Installation
- L Pond/Lake Care
- M Landscape Installation
- N Snow Removal
- O Other (please specify) _____

4a. Do you specify, purchase or influence the selection of landscape products?
 Yes No

4b. If yes, indicate which products you buy or specify:

- (fill in ALL that apply)
- 1 Aerators
 - 2 Blowers
 - 3 Chain Saws
 - 4 Chipper-Shredders
 - 5 De-icers
 - 6 Fertilizers
 - 7 Fungicides
 - 8 Herbicides
 - 9 Insecticides
 - 10 Line Trimmers
 - 11 Mowers
 - 12 Snow Removal Equipment
 - 13 Sprayers
 - 14 Spreaders
 - 15 Sweepers
 - 16 Tractors
 - 17 Truck Trailers/Attachments
 - 18 Trucks
 - 19 Turfseed
 - 20 Utility Vehicles

5. Do you have Internet access? A Yes B No

5A. If so, how often do you use it?

- A Daily B Weekly C Monthly D Occasionally

101	113	125	137	149	161	173	185	197	209	221	233	245	257	269	281	293	305
102	114	126	138	150	162	174	186	198	210	222	234	246	258	270	282	294	306
103	115	127	139	151	163	175	187	199	211	223	235	247	259	271	283	295	307
104	116	128	140	152	164	176	188	200	212	224	236	248	260	272	284	296	308
105	117	129	141	153	165	177	189	201	213	225	237	249	261	273	285	297	309
106	118	130	142	154	166	178	190	202	214	226	238	250	262	274	286	298	310
107	119	131	143	155	167	179	191	203	215	227	239	251	263	275	287	299	311
108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312
109	121	133	145	157	169	181	193	205	217	229	241	253	265	277	289	301	313
110	122	134	146	158	170	182	194	206	218	230	242	254	266	278	290	302	314
111	123	135	147	159	171	183	195	207	219	231	243	255	267	279	291	303	315
112	124	136	148	160	172	184	196	208	220	232	244	256	268	280	292	304	316

Save TIME and fax it:
413-637-4343

AN ADVANSTAR PUBLICATION
©2000 Advanstar Communications Inc. All rights reserved.

products

continued from page 76

lated with four pounds active fluridone per gallon.

Call Griffin L.L.C. at 336/378-0571 / circle no. 275

Take a seat

Calhoun Mfg.'s Trak replacement vinyl seat covers and cushions for riding mowers, lawn and garden tractors, and farm equipment come in six different sizes and are easy to install.

Contact Calhoun at 616/962-0948 / circle no. 276

All-purpose utility vehicle

Howard Price Turf Equipment says its new Maverick 6x4 truckster with six-wheel independent suspension and 20 hp Honda OHV engine is "tough in backcountry and tender to the turf."



The vehicle also features variable speed transmission with rubber mounted engine and transmission, inboard wet brakes, differential lock and top speed of 19 mph. Load capacity is 1,400 lbs.

Call Howard Price Turf at 636/532-7000 / circle no. 277

A chip off the old block

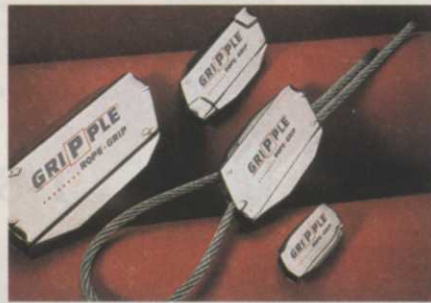
Bandit's 1890 Drum Bandit chipper features increased throwing velocity while eliminating all blow-back from the infeed spout. The new easy climb spring tension system that is now standard on the 12-in. and 18-in. units provides little down pressure until a load presents itself. The new feed system has twice the pulling power and climbs material more easily while

adding greater crushing capacity. The 1890 also has thicker 5/8-in. knives that are 5 1/3-in. wide. The chipper also has two new 250 hp options: the Cummins 6CTA diesel and the John Deere Model 6081A diesel.

Reach Bandit at 800/952-0178 or www.banditchippers.com / circle no. 278

Hang tight

Cooper Tools says its Gripple Rope Grip and Gripple Hang-Fast is perfect for bracing shrubs and trees or suspending lighting, sprinklers and heater/blower units. It is available in sizes rang-



ing from 1/16 in. to 1/2 in., and the reusable Rope-Grip offers a strong, fast, easy and safe method for joining, tensioning and terminating wire rope. The Hang-Fast comes in a range of sizes and load range limits.

For more information contact Cooper Tools at www.coopertools.com / circle no. 279

In control

Dig Corp.'s battery controller offers waterproof operation, versatile programming, and a digital LCD display. Powered by two nine-volt batteries, it can be mounted to the top of a valve or on the inside wall of a valve box and can be programmed for four start times, from one minute to 12 hours. Options include 3/4-in. - 20 threaded solenoid or 3/4-, 1-, 1 1/2- and 2-in. flow control in-line valves. Also available is 3/4-in. and 1-in. actuators to convert most manual antisiphon valves.

Contact Dig at 800/322-9146 or www.dig-corp/asdig / circle no. 280

Send a signal

Superior Signals' Meteorlite 2000 series potted strobe is no disco light, but it is designed for

heavy vibration with the electronics epoxy coated to protect against moisture. One model is a 10-joule strobe with 85 quad flashes per minute, while the other is 15 joules. High profile is 6 1/4 in. while short is 4 1/2 in. Colors include amber, clear, blue, green and red. Each strobe consists of a polycarbonate base and features a combination flat and 1-in. pipe mount standard.

Call Superior Signals at 800/447-3693 / circle no. 281

Titillating tillers

New Holland Construction's new tillers, manufactured by Alitec, are ideal for breaking up clumps, preparing seedbeds, mixing compost into existing soil and tilling home sites prior to landscaping. Bi-directional tine rotation allows the unit to operate effectively with the skid steer moving forward or backward. Offset mounting permits tilling next to curbs, sidewalks, and buildings. Replaceable, hardened tines are made for extended life and easy replacement. The tillers have a working depth of 6 in. and are available in 52-, 73-, and 84-in. cutting widths.

For more information log on to www.newholland.com/construction / circle no. 282

Fertilization efficiency

Emerald Isle Nutri•Rational Foliars bypass the roots and provide efficient intake of plant nutrients through the leaf tissue by using proprietary chelation methods and advanced technology. Each product provides the most desirable forms of turf nutrients in an ideal ratio and has the Emerald Isle "Multiple Release Formats" technology.

For more information contact Emerald Isle, Ltd. at 800/628-GROW / circle no. 283

Blast those bugs

The Rohm and Haas Co. introduces Address T & O insecticide that controls mole crickets, fire ants, cutworms, army worms and other pests. It's water-soluble and absorbed by turf, tree and shrub roots and foliage. Spot applications also can be used to control wasps, ants, crickets, cockroaches, earwigs and pill bugs. Available in 1 lb. canisters, 10-lb. bags and 1/3-lb. water-soluble pouches.

Contact the Rohm and Haas Company at 800/987-0467 / circle no. 284

Creating Simple Solutions



Stop by
Landscape
Show
Booth
#544

As manufacturers expand controller capability and size, we create convenient solutions to easily adapt our remote control systems. To eliminate hardwiring, we produced Receiver Cards for quick and easy, permanent installation that are capable of operating up to the controller's station capacity. With one transmitter you can control Receiver Cards for Rain Bird® ESP MC & LX, Superior Sterling and Irritrol® Dial & MC controllers. We also offer portable, universal models for all 24VAC controllers.

(800) 275-8558

www.remotecontroltech.com

**Remote Control
Technology**

Circle No. 120

Our business is growing yours.



If you want help growing your lawn maintenance business, you owe it to your future to look at a U.S. Lawns franchise.

Our team will provide you with, step-by-step systems to grow your business, maximize efficiency, cut costs, and even satisfy the toughest customers. And as part of the U.S. Lawns family, you'll be recognized as a company with a reputation for getting the job done right the first time. Which can mean more quality time for you and your family. For more information on becoming a U.S. Lawns franchisee, call us today at 1-800-US LAWN.

After all, our business is growing, yours should be too.

www.uslawns.com

Circle No. 122



AA-TACH, PV-II

AA-TACH
INC.
SPECIALIZED EQUIPMENT

The PV-II is the most cost effective Parking Lot Sweeper on the market today. Take a look at the advantages over a conventional truck mounted sweeper

- No need to purchase a dedicated truck
- The PV-II loads and unloads from YOUR truck in just minutes, allowing YOUR truck to perform other tasks, like pushing snow, etc.
- Due to the Poly design of the PV-II, there's no need to replace expensive replacement parts due to rust and abrasion.
- Best of all is the PV-II's low cost, which is thousands less than the nearest truck mounted units.

Call today for a free no hassle demonstration of the AA-Tach, PV-II.

1-888-922-8224

Circle No. 121

It's here...
Industrial Machinery
AUCTIONS
on the Internet!

Industry will never
be the same.

AUCTIONS
Machinery and Property
-Plus-
Machinery for Sale
Businesses for Sale
Commercial Real Estate
RFPs and RFQs
Employment
Funding and Capital
E-mail Notification Services

i-com
industry

www.i-comindustry.com

Circle No. 123