THE VOICE OF THE GREEN INDUSTRY

# LANDSCAPE management

www.landscapegroup.com

WARCH 1999 •

The toughest weeds, north and south

Walk-behind winners

Adding a profitable new service?

Consolidation make it work for you!

**LESCO**°



Always read and follow label directions.

PRE-M° and LESCO° are registered trademarks of LESCO, Inc. CP-0173A

It's simple. PRE-M® is the country's leading pendimethalin herbicide. And no wonder. With over 12 years of proven performance and formulation improvements, PRE-M is here to help your business grow.

What's more, PRE-M comes from the leading supplier in the professional turf care industry, LESCO®.

Talk to your LESCO professional about new, special rebates for PRE-M purchases, or call 800-321-5325. And put the leading edge to work for you.

The Leading Edge.



March 1999 VOLUME 38• NUMBER 3

## INSIDE





#### COLUMNS

- **8** OPENING SHOTS
- 10 ASK THE EXPERT
- 12 ARBOR VIEW

#### DEPARTMENTS

- **14** HOT TOPICS
- 79 EVENTS
- 78 PRODUCTS
- **27** CLASSIFIED
- **89** AD INDEX
- 90 GRAB BAG

ON THE COVER: PHOTO COURTESY POST PROPERTIES, ATLANTA

#### FEATURES

#### SPECIAL REPORT

22 MAKE CONSOLIDATION WORK FOR YOU

We chronicle who's consolidating and how to make the best of it LM STAFF REPORT

- 23 NEW PLAYERS, NEW RULES
  Big consolidations are changing the industry forever. Here's how.
- 28 WHO'S CONSOLIDATING?
- 33 HOLD 'EM OR FOLD 'EM Contractors — sellers & independents — speak out
- 39 SELLING? GET HELP NOW
- 42 STAYING INDEPENDENT
  There are plenty of ways to compete with the big boys
- 44 LM REPORTS: WALK-BEHIND MOWERS

New, productive machines CURT HARLER

#### WEED CONTROL GUIDE

52 CONTROLLING CRABGRASS IN COOL-SEASON TURF

BY ZAC REICHER, PH.D.

58 THE SOUTH'S ORNERY NEW WEEDS

BY BERT MCCARTY, PH.D.



- 64 TOP 10 ORNAMENTAL WEEDS

  By JEFFREY F. DERR, Ph.D.
- 70 TIME TO ADD A NEW SERVICE?

  Know what's profitable first

  BY ED WANDTKE, MBA
- 74 AWARD-WINNING LANDSCAPE MANAGEMENT:

Post Dunwoody Apartment Homes

76 TAKE THE PLUNGE INTO IRRIGATION

This add-on service can be a natural BY PALMA PATRUCCI

Visit us on the web at www.landscapegroup.com

LANDSCAPE MANAGEMENT (ISSN 0894-1254) is published monthly by Advanstar Communications, Inc., 131 W. First St., Duluth MN 55802-2065. Subscription rates: one year, \$99, for two years \$58 in the United States & Possessions; \$66 for one year, \$99 for two years in Canada and Mexico; all other countries \$130 for one year, \$195 for two years. For airmail delivery, include an additional \$70 per order annually. Single copies (pre-paid only): \$4 in the United States; \$7 in Canada and Mexico; \$12 all other countries. Back issues, if available: \$8 in the U.S., \$14 in Canada and Mexico; \$24 all other countries. Add \$5 per order for shipping and handling. Periodicals postage paid at at Duluth, MN 55806 and additional mailing offices. POSTMASTER: Please send address changes to Landscape Management, P.O. Box 6198, Duluth, MN 55806. Canadian G.S.T. number: R-124213133. Publications Mail Agreement Number 841919. Printed in the U.S.A.

Copyright ©1999 Advanstar Communications, Inc. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including by photocopy, recording, or information storage and retrieval system, without permission in writing from the publisher. Authorization to photocopy items for internal or personal use of specific clients, is granted by Advanstar Communications Inc. for libraries and other users registered with the Copyright Clearance Center, 222 Rosewood Dr., Danwers, MA 01923 phone: 978-750-8400 fax 978-750-4470; call for copyring beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. For those not registered with the CCC, send permission request in writing to Permissions Dept. Advanstar Communications Inc., 7500 Old Oak Blrd., Cleveland, OH 44130 or fax to 440-891-2740.





## It works over time.

Dodge Rams are the longest-lasting full-size pickups on the road.\* And over time, they're capable of a tremendous amount of work. Options like a fold-down business console with room for a laptop computer and cell phone make Ram efficient. And the capability of its Magnum® engine lineup is downright legendary. Our On The Job program is another strong work benefit. With it, qualified commercial customers can get special APR reductions when financing through Chrysler Financial. We also offer TRAC, Capital, and Municipal Lease options that allow customers to tailor-make a deal based on individual needs. Plus, depending on the model, you can choose from a \$300 cash allowance, a 100,000-mile/5-year Powertrain Care Pluss service contract with Road Hazard Tire Coverage, or select upfit package allowances.\* If you work with Ram, we'll work with you.



Call toll-free 1-877-ON-THE-JOB or visit www.4adodge.com



Finally, the most comprehensive **Green Industry** information is at your fingertips 24 hours a day.

(Isn't that a bright idea?)

Advanstar's Landscape Group Presents

### www.landscapegroup.com

The Internet Home of the Green Industry.



7500 Old Oak Boulevard • Cleveland, OH 44130

## ANDSCAPE

#### EDITORIAL STAFF

Sue Gibson Executive Editor (440) 891-2729 E-mail: sgibson@advanstar.com

Managing Editor (440) 891-2636 E-mail: rhall@advanstar.com

Nancy Stairs **Technical Editor** (440) 891-2623 E-mail: nstairs@advanstar.com

Karl Danneberger, Ph.D. Senior Science Editor E-mail: Danneberger1@osu.edu

Vernon Henry Group Editor (440) 826-2829 Lisa Lehman Art Director (440) 891-2785 Lisa Bodnar Graphic Designer (440) 891-3101

Visit us on the World Wide Web at: www.landscapegroup.com

#### READER ADVISORY PANEL

Jerry Coldiron Boone Links / Lassing Pointe G.C. Florence, KY Larry Iorii Down to Earth Landscaping Wilmington, DE

Rick Kier Pro Scapes Jamesville, NY

David Mellor Milwaukee Brewers Milwaukee, WI

#### BUSINESS STAFF

John D. Payne Group Publisher (440) 891-2786 E-mail: jpayne@advanstar.com

Brenda Dunlap Administrative Coordinator (440) 891-2734 Karen Lenzen Production Manager (218) 723-9129 Debi Harmer Production Director (218) 723-9325 Karen Edgerton Circulation Manager (218) 723-9280

Candy Hausauer Green Book Coordinator (218) 723-9175

#### ADVERTISING OFFICES

Tom Galligan National Sales Manager

National 34 3901 52nd Ave. Kenosha, WI 53144-1830 (414) 653-9523 Fax: (414) 653-9524 E-mail: tgalligan@advanstar.com

John Kiesewetter Western Sales Manager

859 Willamette St. Eugene, OR 97401 (541) 338-0022 Fax: (541) 338-0044 E-mail: jkiesewetter@advanstar.com

Heather Fox **Account Manager/East** 

7500 Old Oak Blvd. Cleveland, OH 44130-3369 (440) 891-3168 Fax: (440) 891-2675 E-mail: hfox@advanstar.com

Gene Homan **Account Manager/Midwest** 

7500 Old Oak Blvd. Cleveland, OH 44130-3369 (440) 891-2772 Fax: (440) 891-2675 E-mail: ghoman@advanstar.com

Leslie Zola Classified / Market Showcase (440) 891-2670;

(800) 225-4569 x670 E-mail: lzola@advanstar.com

Steve Engelman Directory Sales (800) 736-3665 ext. 104

#### MARKETING SERVICES

Marcie Nagy Reprints (100 minimum) (440) 891-2744 Joe Gilliam Circulation List Rental (800) 225-4569, ext. 773

Advanstar Marketing Microfiche/film Copies (800) 598-6008

Subscriber/Customer Service

(218) 723-9477/ (888) 527-7008

Tammy Lillo International Licensing (218) 723-9539 Books, directories, back issues, photocopies (800) 598-6008; (218) 723-9180



Chairman and Chief Executive Officer Robert L. Krakoff

Vice Chairman James M. Alic

VP/Finance, CFO and Secretary David W. Montgomery

Executive Vice President, Skip Farber **Business Development** 

Executive Vice Presidents William J. Cooke, Alexander S. DeBarr

Vice President & General Counsel Eric I. Lisman Vice President-Controller & Treasurer Adele D. Hartwick



A proud supporter of these green industry professional organizations:



**Associated Landscape Contractors of America** 150 Elden Street, Suite 270, Herndon, VA 20170 (703) 736-9666; http://www.alca.org



American Nursery & Landscape Association 1250 I St. NW, Suite 500, Washington, DC 20005 (202) 789-2900



Independent Turf and Ornamental Distributors Association

1217 Wayburn Grosse Pointe Park, MI 48230 (313) 331-7739



The Irrigation Association

8260 Willow Oaks Corporate Dr. Suite 120 Fairfax, VA 22031-4513 (703) 573-3551; http://www.irrigation.org



**National Arborist Association** 

The Meeting Place Mall, P.O. Box 1094, Amherst, NH 03031-1094 (603) 673-3311; http://www.natlarb.com



**Ohio Turfgrass Foundation** 

1100-H Brandywine Blvd.,PO Box 3388, Zanesville, OH 43702-3388 (888) 683-3445



The Outdoor Power Equipment Institute

341 South Patrick St. Old Town Alexandria, Va. 22314 (703) 549-7600; http://opei.mow.org



**Professional Grounds Management Society** 

120 Cockeysville Rd., Suite 104, Hunt Valley, MD 21031 (410) 584-9754



**Professional Lawn Care Association of America** 

1000 Johnson Ferry Rd., NE, Suite C-135, Marietta, GA 30068-2112 (770) 977-5222; http://www.plcaa.org



Responsible Industry for a Sound Environment

1156 15th St. NW, Suite 400, Washington, DC 20005 (202) 872-3860; http://www.acpa.org/rise



**Sports Turf Managers Association** 

1375 Rolling Hills Loop, Council Bluffs, IA 51503-8552 (712) 366-2669; (800) 323-3875; http://www.aip.com/stma



**Turf and Omamental Communicators Association** 

P.O. Box 156, New Prague, MN 56071 (612) 758-5811



### Spring Special — 25% Off!

Order colorful BLOOMERS® 100% wildflower seed (no filler) ideal for roadsides, parks, golf course roughs and vacant lots. Wide area of adaptation. 1 lb. covers 4,500 sq. ft. 5 lb. minimum.

5 lbs. BLOOMERS \$105.00 / 50 lbs. BLOOMERS \$995.00

Call 800-247-6910 today!

## TURFSEED, INC.

www.turf-seed.com

PO Box 250 / Hubbard, OR 97032 / 503-651-2130 / fax 503-651-2351

Circle No. 140 on Reader Inquiry Card



This new single-source reference provides the most current and comprehensive information on the basics of turfgrass and landscape management available today!



### The Landscape Management Handbook

edited by William E. Knoop

125 pages, softcover, Item #LSMB830  $\$34^{95}$ 

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

ADVANSTAR MARKETING SERVICES • Customer Service Dept. • 131 W. 1st St., Duluth, MN 55802 Shipping/Tax: UPS—add \$5 per order, plus \$1 per additional book. International, Hawaii, Alaska, Canada and expedited shipments—call for rates. Residents of CA, CT, GA, IL, MN, NJ, NY, OH and TX must add sales tax. Prices subject to change.

CODE: 950072



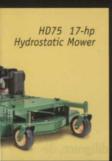




## We Build Our Reputation



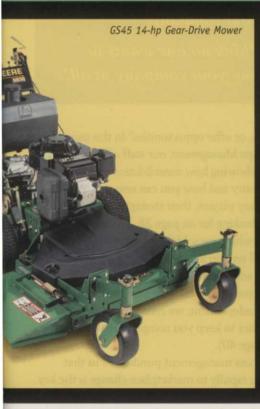
A reputation doesn't build on itself, unless you work at it. That's why we wait to introduce a piece of new equipment until we're sure it will end up as legendarily reliable, and as durable as its predecessors. We buck trends, too. We stamp most of our mower decks, rather than going the easier — and less durable — fabricated route. Our goal in designing our wide-area walk-behind transmissions was to back them with a 3-year limited warranty. (No wonder they ended up unlike any others.) We didn't rest until the F620 Z-Trak

















Mower was the easiest to service zero-turning-radius mower in the industry. And we held out until the new John Deere XT Series handhelds set new standards in sound quality, low vibration, and power. Take a look at any piece of John Deere equipment, from the largest to the smallest, and you'll discover equal devotion to quality and innovation in every one. And you'll find it all at your local John Deere dealer — who truly has the best reputation of all. For the one near you, call 1-800-537-8233, or visit www.deere.com.

Circle No. 104 on Reader Inquiry Card



onder if consolidation is a fad?

Don't think so. The flow of millions of dollars into the landscape industry has changed it forever.

This can be bad news for you, or it can be the opportunity of a lifetime. And you don't have to sell out to succeed in this new market.

I've watched this consolidating market with a mixture of admiration and confusion. It has characteristics that are familiar but I couldn't put my finger on it until I realized it's like a mating dance or courtship ritual. Think about it.

Two organizations eye each other from a dis-

tance, start a form of courtship by talking together (sometimes in secret) and exchanging confidences, and then the fun begins. The buyers may hear rumors that some other organization is interested in the target company and press their suit more strongly, perhaps upping the ante. When the seller finally commits and both organizations reach an accord. they boldly and happily announce their intentions

to the world. These announcements have come so rapidly lately it seems like everyone is getting "hitched."

If our industry's companies were Wall Street's "wallflowers" before, they're suddenly much in demand. The giddy deal-making and cashing in after hard years establishing a business is wonderful for those involved, and we wish them the best of luck in their new organizations and ventures.

It will be interesting watching from the sidelines as the fallout begins, and the inevitable number of failed acquisitions happen. According to Allan Springer, vice president, business development for GrowScape LLC (a new consolidator), statistics show that 57% of the acquisitions made in the last 10 years failed to meet the original objectives. Sounds like the U.S. divorce rate statistics. Despite lengthy and careful due diligence, despite strong intuition, despite the fact that both sides will try very hard to make each acquisition integration work, many will not.

What about those of you who won't be selling? How much will consolidation hurt your

- ➤ Worried that consolidated landscape companies will steal your business?
- ► Afraid you've missed the best opportunities to sell your company?
- ► Think no one wants to buy your company at all?

business, or offer opportunities? In this issue of *Landscape Management*, our staff offers the first of a series showing how consolidation has affected the industry and how you can respond. We profile the key players, their strategies and what they're looking for on page 28. We talk to contractors who have sold their businesses and those who will remain independent (page 33). If you want to sell, we sift through the finer points of making your best deal (page 39). And if you're staying independent, we recommend some opportunities to keep you competitive with the big boys (page 40).

Business management pundits tell us that adapting rapidly to marketplace change is the key to staying competitive. Whatever your situation, consolidation brings new threats, opportunities and decisions. **LM** 

## Make consolidation work for you



Sue Gibson

SUE GIBSON Executive Editor



## How to prune euonymous

How do you prune <u>Euonymous</u> <u>alatus compacta</u> (burning bush) when used in a formal landscape—best time, worst time, promoting new bud growth and fall color?

-MICHIGAN

The burning bush (Euonymous alatus compacta) is a spring blooming plant. These shrubs, and small trees such as redbud, flowering or Kousa dogwood, forsythia, mountain laurel, privet, magnolia, crabapple, mock orange, rhododendron and lilac produce flowers on last year's wood. They produce flower buds late in the season, so if they are pruned during the dormant season in winter, they will not have flowers the following spring. Therefore, to maximize flowers and colorful berries, burning bush should be pruned after blooming.

However, winter pruning can help determine the architecture and shape of the plant. If there are any crossing branches, they are easy to notice and can be pruned off at this time.

Some of the burning bush plants may reach the size of a small tree. These small tree-type plants can be best trimmed during the dormant season. Recognizing branching structural defects and making proper collar cuts is easier without the leaves.

## Another euonymous question

What would cause winged euonymous leaves to fold? Inside the fold were egg masses and some leaves had extensive notching, similar to black vine weevil adult feeding damage. But we usually see black vine weevil damage later than this. We also found some weevils that looked different from black vine weevil.

-CONNECTICUT

Your problem may be the adult two-banded Japanese weevil, a pest on ornamental plants such as azalea, dogwood, euonymous, forsythia, holly, lilac, privet, rhododendron, rose, spirea and viburnum in several eastern states.

This weevil has a muchbroadened abdomen and a short snout, is gray to dark-brown in color with two dark bands on the wing cover. They are about 1/5 to 1/3 inches in size. Their larvae are like the black vine weevil, but shorter, legless and 3/8 inch long.

The two-banded Japanese weevil can overwinter as eggs, larvae or adults in debris, and becomes active from April to July. During June, newly emerged adults (developing from immature overwintered adults) can be found along with old adults, which have duller markings. This weevil has one generation per year with overlapping stages of life.

These weevils become active two to four weeks earlier than black vine weevils. Around May, eggs are laid in leaves on the ground or on the plant. The adults use their legs to fold the leaf edges, then deposit one to nine eggs. Eggs hatch, larvae crawl from the leaves, then burrow into the soil and develop on roots.

Unlike black vine weevil, the adult feeding of the two-banded Japanese weevil is reportedly greater than the larval damage. Adults feed by day and remain on the host at night. Black vine weevils feed at night, take shelter during day at the base of plant in debris and can be easily trapped. Since two-banded Japanese weevils stay on the plant, the trapping technique using boards, etc., will not be practical. However, at night you can place some paper or sheets on the ground and shake the plant to dislodge the insect.

It is also possible you may find both two-banded Japanese weevil and black vine weevils on the same plant and both will cause similar crescent-shaped feeding notching damage. The two-banded Japanese weevil often feeds in clusters and can defoliate the plants by late summer.

Mechanical removal may not be very effective because adults emerge over an extended period. To date, all the adults have been found to be female, which probably means females can produce viable eggs without mating. Insecticides used for black vine weevil management may also work for two-banded Japanese weevils, but the timing should be two to three weeks earlier than black vine weevil management. This needs further research to determine the product efficacy. LM



BALAKRISHNA RAO

Manager of Research and

Technical Development
for the Davey Tree Expert

Company, Kent, Ohio

### SEND YOUR QUESTIONS TO:

"Ask the Expert"
Landscape Management
7500 Old Oak Blvd.
Cleveland, OH 44130
or contact Nancy Stairs
nstairs@advanstar.com
440/891-2623

Please allow two to three months for an answer to appear in the magazine.

### HYDRO POWER 1280 WHAT A MOWER



#### HIGH CAPACITY HIGH FLOATATION VERY POWERFUL

In the spring when the mowing really gets tough, the Hydro Power 1280 will pull you right through the toughest of grass with its turbo charged 61 h.p. Yanmar diesel. The deck system has a 62" full floating front deck that raises vertically for ease of service and two 41" side decks supported by four caster wheels for full floatation over berms and dips. With the side decks swept forward and coupled with the tight

steering, the Hydro Power 1280 will out-trim an outfront 72". Operator comfort and ease of operation has been meticulously designed into the 1280. Operators' console features a tilt steering column, finger tip implement controls, ease of entry/exit and hydraulic suspension seat or optional Bostrom air seat for the long day on the turf. Call your Howard Distributor for a demonstration on your turf.

Manufactured by



18155 Edison Avenue Chesterfield, MO 63005

Circle No. 105 on Reader Inquiry Card

recently received some responses to my
February column, an embarrassment of
riches but greatly appreciated. Each person had something to add to my points, an
example of the wide range of knowledge
and experience that exists in the green industry.

Thomas Smith, of Spring Grove Cemetery and Arboretum, Cincinnati, OH, called and, as an educator, expressed his eagerness to get out information on the use of native trees. He even offered the use of his extensive slide materials. It was a generous and appreciated offer that I hope

to be able to use in the future.

Jim Wollney, of Church Landscape, Wadsworth, IL, sent a fax that told me that I wasn't the only one who looked at trees. Jim's point was that tree form is also a valuable landscape consideration:

"I also think that there are different forms of trees to use besides the lollipop we typically plant. I enjoy seeing low branches and clump forms of ash and linden in the wild areas."

The visual variety that exists in nature can be an attractive addition to a landscape. Multistemmed trees, properly chosen and situated, are another way of adding to the character of a location. When they have an interesting bark texture or color, the effect is further enhanced. Crimson King maples are nice in their place, but there is room for so much more variety. We need to educate ourselves AND our clients.

#### Regulating biodiversity?

Tom Knowles, an urban forestry consultant in Columbia, SC, e-mailed me with a thought on taking diversity too far: "One community in our area is currently considering changing their existing tree and landscape ordinance to reflect an increase in biodiversity concepts.... Anyway, this community is considering a species make-up requirement of no

more than 10% of a single species on any commercial property. This means that on new landscapes being developed within the town limits, the landscape contractor would be required to plant no more than 10% of material in any one species. Now typically, a commercial site may have 4 to 6 street trees on the site. Can you imagine...1 oak, 1 maple, 1 ash, 1 birch, etc?...

"My point is, we have to be careful how we promote species diversity and be REAL about it. This community is getting ready to adopt something that may be a nightmare to look at in 10 to 20 years. Species diversity needs to be studied on a regional or community-wide basis."

Tom's point shows us how a little knowledge can be a dangerous thing. A well-meaning group of people, no doubt, but the need for professional, balanced input is essential. There are a number of ways to address tree species choices in the community. This could include:

- \* a list of approved species for the community, regularly updated
- \* a rebate through a local nursery for people who purchase approved species
- \* knowledgeable decisions on tree species choices made for community property
- \* planning, by not planting a single species in a neighborhood, but using a variety.

The situation brings us around, once again, to my comment in February that short-sightedness and a lack of familiarity with trees can lead to some poor decisions. This could be said about many local issues. The involvement of knowledgeable professionals in the community is an essential contribution.

I want to thank the people who commented on my last column. And to those of you who have sent your comments on previous columns, I may not get a column out of them, but I do keep them on file, as a reminder of what I am doing right and wrong.

Agree/Disagree? Comments/Questions? Column Suggestions? Let Nancy Stairs know at 440/891-2623. Fax: 440/891-2675. E-Mail: nstairs@advanstar.com

# Readers speak up on choosing tree species



Trany Stain

NANCY STAIRS
Technical Editor



## IRRITATING.

## NON IRRITATING.

## Talstar<sup>®</sup> insecticide: The only low-rate pyrethroid that won't irritate your skin or throat.

If you've been using organophosphates or carbamates, you'll like the fact that Talstar insecticide delivers consistent results without the unpleasant odor. And you'll use less product because it's extremely effective at very low rates.

Talstar insecticide gives you unsurpassed control over a broad spectrum of insects like cutworms, chinch bugs, mole crickets, fire ants, fleas, ticks and mites. And it's so versatile, you can apply it to golf courses, lawns, trees and ornamentals.

Talstar insecticide has the longest residual control, so you'll get better results and more satisfied customers. Plus, irritating callbacks and turf damage will be ancient history.

Talstar insecticide is available in both flowable and granular formulations. Call your local FMC distributor or 1-800-321-1FMC for more information.





## Ruppert goes from boardroom to farm

Craig Ruppert is working his farm and he likes it.

Ruppert, who built a landscape company with revenues of \$45 mil-

lion a year and, for several months, was the head of the landscape division of Tru-Green-ChemLawn (TG-CL), now manages his 300-acre nursery and farm in rural Maryland. Helping him is Chris Davitt, former Ruppert Landscape Senior

Vice President of Operations.

"Ruppert Nurseries, which has always been a separate company, was not included in the acquisition," says Ruppert. "We're now rolling up our sleeves in that business and plan to grow it."

Late last summer TG-CL purchased Ruppert's Maryland-based landscape company, at the time, the third largest landscape company in the country. Prior to their departure, Ruppert led TG-CL's landscape division from his Ashton, MD, location in addition to managing the company he had built; Davitt managed the East Division.

"Despite being a strategically sound move, the changes that accompanied ServiceMaster's acquisition of LandCare—including moving certain corporate functions from Ashton to Memphis—gave us reason to be concerned about our ability to influence and control the future in the way that we had hoped,"

explains Ruppert. TG-CL and LandCare had been competing to acquire landscape companies throughout 1998. SM's (parent

> company of TG-CL) stock-for-stock fold-in of LandCare, based in Houston, should be completed by the end of March.

> "TG-CL has a big job integrating these companies into one strong company, but I think they'll build a successful national landscape com-

pany," Ruppert adds. "Paul Anderegg (TG-CL) is an excellent manager, and I enjoyed working with him, as well as with Dave Slott (TG-CL)."

As for the landscape company he built and is now no longer a part of, Ruppert says it remains in capable hands with Don Jarratt, Ken Hochkeppel and a host of talented managers.

"While the decision to leave was difficult and I miss the challenges of directing a large company, I'm very happy to have cut down on my traveling and to have so much more time to spend with my family and my community activities," says Ruppert. "I'm also very happy to continue working so closely with Chris Davitt and with my brother, who has managed the nursery since 1990."

## Green groups hold water summit WASHINGTON D.C. — Representatives of 10

industry organizations met February 22 to discuss a unified approach to using water resources effectively. The Irrigation Association hosted the meeting as Congress prepares to

hosted the meeting as Congress prepares to consider changing and reauthorizing the Clean Water Act.

Participating in the meeting were the American Society of Irrigation Consultants, the American Water Resources Association, the Associated Landscape Contractors of America, the Golf Course Superintendents Association of America, the National Association of Conservation Districts, the National Association of Water Companies, the National Ground Water Association, the United States Golf Association, the U.S. Committee on Irrigation and Drainage and the Water Environment Federation.

#### Yazoo/Kees set to acquire Dig-It tractor, Huskie vehicles

JACKSON, MS— Yazoo/Kees is acquiring HCC's Dig-It tractor and towable backhoe products, the Huskie utility vehicle product line and the Power King garden and estate tractor line. The manufacturing of the three product lines will be moved to the 166,000 sq. ft. Yazoo/Kees manufacturing facility and corporate office in Jackson, MS. This transition is expected to be completed in four to six months.

## PHC to market four new microbial-based products

PITTSBURGH, PA — A venture between Plant Health Care, Inc. (PHC) and Ecogen, Inc. allows PHC to sell four new biopesticide products into the U.S. commercial turfgrass, landscape and garden markets under its own label. The EPAregistered products will be packaged by PHC at its production facility in Pittsburgh. Like other PHC products, the new biopesticide products contain microbial-based active ingredients. AQ10™ is a selective fungal hyperparasite used to control powdery mildew. Cruiser® contains beneficial insecticidal nematodes that control Japanese beetles and other white grubs, billbugs and sod webworms. Crymax® and Lepinox™ are advanced Bacillus thuringiensis (Bt) bioinsecticides that protect ornamental, fruit and nut trees, bedding plants and turfgrass from caterpillar/worm pests, says PHC.

## A TURF HERBICIDE



## YOU CAN LIVE WITH

Families rely on you for lawn care expertise because they know you'll make the right choices. The very best for the turf, and for the people who enjoy it. One way to keep that trust is with Dimension® turf herbicide.

Dimension gives families a lawn they can love. It provides season-long control of crabgrass and over 20 other tough weeds and grasses. It doesn't stain, so you can apply it close to walks, fences and drives. That means no more weed "fringes," because you

can use Dimension with confidence right up to the lawn's edge. It's even labeled for use on ornamentals; so you can apply it to lawns and landscapes.

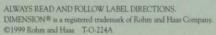
Dimension's low use rates and favorable environmental profile mean less worry. In fact, when you apply Dimension-on-fertilizer formulations, families can re-enter and use the lawn as soon as the dust settles. That could even turn a skeptical neighbor into a future customer.

Dimension offers the widest application window— 6 weeks more than other preemergence products. You'll save money because season-long control means fewer callbacks. And most important, your customers will stay customers, year after year after year after year...the kind of callback you can live with.

Call 1-800-987-0467 or visit us at www.dimensionpro.com to learn more.











## PUT US TO WORK

Just tell us what materials you're looking for and we'll send them ASAP.  Light Duty Commercial _ Safari®/Savana® Commercial Vans _ C-Series (Medium Duty Conventional)  T-Series (Medium Duty LCF) _ W-Series (Light Duty LCF) _ GMC® Personal-Use Trucks _ Pontiac® Cars	
Name	Title
Company	Address
City	State ZIP
Type of Business  Do you currently own a GMC?  Yes No	Business Phone  Are you likely to lease or buy?  Lease Buy Undecided
If yes, selling dealer:	When? □ 0–3 months □ 7–9 months □ 1–2 years
If no, preferred dealer:	

If we can do anything else for you, just call 1-800-GMC-8782. www.gmcforwork.com



#### **BUSINESS REPLY MAIL**

FIRST-CLASS MAIL PERMIT NO. 351 TROY, MI

POSTAGE WILL BE PAID BY ADDRESSEE



PO BOX 905 TROY MI 48099-8904 NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES





#### Ariens and Kanga forge agreement

BRILLION, WI - The Ariens Company has announced a manufacturing and distributing agreement for the Mini Skid Steer Loader and attachments with Kanga Loaders USA of Bixby, OK. Ariens and Gravely dealers will begin selling the Kanga products in the next few months and Ariens will begin manufacturing them in the near future.

### **Giant home builder Centex gets** a start in lawn care market

DALLAS- Centex, based here, is the largest home builder in the United States. It's now in the lawn care business too with its HomeTeam Services. Other services offered by this Centex subsidiary include pest control and home security systems.

Mitch Smith is putting together the lawn care segment of HomeTeam Services. He started in the lawn care business with a Year-Round Lawn Care before spending eight years as a regional manager for Orkin LC. He left Orkin LC when it was acquired by TruGreen-ChemLawn in 1997.

"We're really just getting it started," Smith said of Centex HomeTeam LC.

"We've put lawn care into 11 of our pest control offices. We're treating it more like an incremental business in the pest control offices." HomeCare offers lawn care from locations in Florida, Texas, North Carolina and Georgia.

"The vision at Centex is to provide quality services that homeowners want, and security is a natural fit, pest control is a natural fit and lawn care is a natural fit," Smith adds.

Parent company Centex operates in 20 states and recorded revenues of \$3.9 billion in 1998.

## Team Turfco

Bottom line is this: We profit when you profit! Call now for your FREE Getting Started Booklets. Step by step instructions on how to profit from Aeration, Landscaping, Edging and Seeding.

Getting Started in Aeration Includes "The Profit Formula", Selling, New Customers, Follow-up, Billing and a detailed review of the relationship between aeration and annual weeds.

Profit from Beds & Edging Illustrated step-by-step instructions for Installing & maintaining today's most popular edging at reduced labor costs and a more professional finish.

How to Get Started in Lawn Seeding

Includes "How much can I make", "Thatch", "Aerate & Fertilize", "After Seeding Care Instructions" and a review of the most popular grass types.

Landscaping Pathways to Profit Learn the secrets to quick profitable installation of beds & shrubs. Learn about edging options and cost-effective

ways to handle sod removal.

To help you start selling each booklet comes with a start-up supply of brochures you can use to mail or give to your customers.

This is your opportunity to build your business

Call or Write Today!

Turfco Mfg. Inc. 1655 101st Ave. N.E. • Minneapolis, MN 55449-4420 • (612) 785-1000 • (612) 785-0556

Circle 108



**TURFCO** 

### **Griffin embraces Audubon program**

COLD SPRING, KY — Griffin Industries. based here, has registered 22 of its facilities throughout the United States in the Audubon Cooperative Sanctuary System's (ACSS) Corporate and Business Certification Program.

The ACSP for Businesses is similar to the Sanctuary Program for golf courses. Businesses are certified in 5 areas: environmental planning, wildlife and habitat management, outreach and education, resource conservation and waste management. Of the 93 businesses registered in the ACSP, 11 have reached full certification so far. Over half of the fully certified businesses are Griffin facilities. Griffin Industries is the maker of Nature Safe Natural and Organic Fertilizers.

### Evergreen funds continue to grow

RALEIGH, NC- John Deere donated \$25,000 to the Evergreen Fund (formerly known as the PLCAA Education & Research Foundation) which is promoting greenways and a national greenway system.

Green industry associations are working with the Evergreen Foundation to



form a Green Industry Coordinating Group. When a greenway project is approved, associations can ask members in the geographical area to volunteer time and services, donate equipment and materials and provide other kinds of assistance.

Part of the John Deere contribution will help fund a Greenways Archive at North Carolina State, bringing together many sources of information and making the information accessible through the Internet.

The Evergreen Foundation is at 1000 Johnson Ferry Road NE, Ste. C-135, Marietta, GA 30068-2112. Call Betsy Demoret at 770/977-5222 for more information.



on any terrain. Spread mulch, compost, soil mixes, playground chips or any number of

other organic materials for landscaping, lawn

other additives WHILE BLOWING! Install a

lawn with soil mix and seed, or blend weed inhibitors with mulch. You can even topdress

and overseed turf with only one application.

Get a jump on your competition. Call today

and find out how you can expand your possi-

www.expressblower.com

bilities with an Express Blower!

Visit our web site at

800-285-7227

restoration, erosion control and much more.

With our ALL NEW Injection System, the Express Blower can inject seed, fertilizer or

MAN WITH THE

One person, can blow

30 to 100 cubic yards per hour.

**EXPRESS BLOWER** 

A division of Rexius Forest By-Products, Inc., Eugene, Oregon Circle 109



Make consolidation work for you...
first of a three-part series

PAGE 23 New player, new rules

PAGE Who's consolidating? PAGE 33 Hold 'em or fold 'em

PAGE Selling? Get help now

LLUSTRATION: BARRY EDWARDS

onsolidation, mergers and acquisitions, and even popularity on Wall Street aren't new to the green industry, but the dollars available for investment in our market is new. Before this year's end, there may be upwards of a billion dollars or more invested in landscape and related services.

A similar trend of growth in the late 1960s and early 1970s encouraged several firms to go public. According to Burton Sperber, president, CEO and founder of Environmental Industries Inc., Calabasas, CA, that was the time that "Wall Street investment analysts discovered the potential of the landscape industry." EII, The Toro Company, American Garden Products in Boston, Leisure Gardens in Texas and Bonanza Steakhouse of Dallas (which owned Lambert's Landscape) all went public.

Few of those are around today, he notes. EII bought back its stock and went private again. Only Toro is still a public company. Maybe the time just wasn't right. The industry fragmented

## New players, new rules

Consolidation in the landscape industry is here to stay. How you respond is what counts.

LM STAFF REPORT

again into small, medium and large regional firms handling a variety of lawn, landscape maintenance, design/build, tree, irrigation and related services. Until 1997, the largest industry companies included Asplundh Tree Expert Company, the Davey Tree Expert Company, EII, The Brickman Group, the F.A. Bartlett Tree Expert Co. and TruGreen-ChemLawn.

#### **Big-ticket buyers**

According to James Hermann, M&A Advisor with The Geneva Companies, Irvine, CA, the United States is on the crest of a consolidation wave last seen in this powerful form in the 1890s. Some experts estimate "trillions" of dollars are available in the market searching for growing firms. Reports that green industry firms typically grow faster than the stock market are music to investors' ears.

#### What's driving consolidation

So why are all the dollars heading your way? There are a number of trends that contribute to the consolidation movement:

Economic boom. It may have been the Asian economic crisis, America's long-standing bull market, consistently low interest rates and low levels of inflation or just creative financiers looking for a new glamour stock, but someone became interested in the green industry as a serious, lucrative source of growth.

Formation of REITs. The same economic growth that has driven the economy also contributed to the formation of real estate investment trusts (REITs), where investors purchase real estate for high return on their investment. Is this important to the green industry? You bet. According to Hal Cranston, president and CEO of LandCare USA, half of all multifamily developments in the United States will be owned by REITs by the year 2005.

Related industry consolidations. Close on the heels of the REITs trend are consolidations in industries serving real estate: builders,

contractors, roofing, plumbing companies, HVAC, etc.

Make a killing on fragmentation. The stunning impact of unifying a fragmented group of companies into powerful, national service firms has tremendous potential to be profitable.

Economies of scale. For the past few years, the trend in consolidation has accelerated to the point that you can hardly turn on the television without hearing about a new megamerger which is consolidating an industry: automotives, banking, telecommunications, internet, even publishing. It makes economic sense for many industries to consolidate, use their resources more efficiently and get strategic advantage from natural economies of scale.

Great economic outlook. Cranston and others

point to studies documenting the value of landscaping, municipalities requiring landscaped open areas in new building developments, the trend toward outsourcing and overall economic growth that spurs new construction as factors influencing consolidation.

Miscellaneous benefits. Consolidators point out that the new, widespread organizations will offer better employee benefits and career opportunities, more professional operations, more sophisticated marketing, comprehensive services for large regional and national clients and opportunities for additional business with other corporate divisions (TruGreen/ChemLawn lawn care, for example) or within certain market segments (golf course management, growers, property managers).

cont. on page 26

## New Chipco Proxy. Slows growth drama {Some of us are already

A thicker, denser stand. Fewer clippings and more time between cuts. There's no denying what's top of mind for every golf course superintendent. We're talking about CHIPCO PROXY". The new turf growth regulator that works better than anything you've ever tried before. And at a fraction of the cost per acre for many applications.

PROXY lasts longer. Up to three weeks longer.

Apply PROXY early in the season and you'll see up to a 50% reduction in clippings through heavy spring growth. Its long residual will catch the eye of every golfer, too, with dense, tightly-knit turf for better playability.

PROXY also costs less than other PGR's. Its seven weeks of residual on Kentucky bluegrass and perennial ryegrass can give you up to a 50% savings in costs.

## tically and reduces the number of cuts. familiar with this concept.

PROXY is also a very turf-safe product that provides a more consistent level of growth regulation. With PROXY, you won't see the initial yellow shock that discolors grass, or the post regulation surge growth that requires a change in your mowing schedule.

Fewer mowings. Fewer sprays. Longer residual. And up to 50% less cost per treatment for many applications.

We think CHIPCO PROXY is a new concept every professional turf manager should become familiar with.

Chipco Y ROXY

Circle No. 122 on Reader Inquiry Card

cont. from page 23

#### Who's investing?

Money flows into our industry at an amazing pace, in several ways:

- \* Established consolidations like Tru-Green-ChemLawn/LandCare USA purchase firms with funds from public stocks
- \* New rollups like GreenScape LLC form, funded by venture capital and investment banks
- \* Landscape companies form their own consolidations and finance their purchases with equity
- \* Brokers purchase firms with money from institutional investors
- \* Venture capital groups either bankroll new rollups or become financial and strategic partners with established firms (like The Brickman Group).

Landscape Management has heard there are nearly 20 different consolidation or buy-

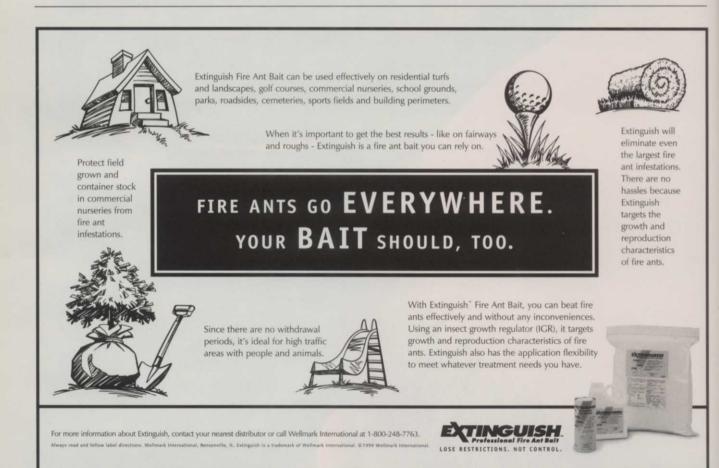


Consolidation discussion at the ALCA Conference last November drew a full house. (l. to r.): Ed LaFlamme, Bill Murdy, Ron Schmoyer, Bruce Wilson, Craig Ruppert, and Scott Brickman.

ing groups active in the green industry. Some have been widely publicized and others still forming. While large players like EII, The Brickman Group and The Davey Tree Expert Company will try to build and continue growth internally, most of the new consolidations grow through acquisitions of other companies.

This will have some strange effects in certain markets, at least temporarily. For example, one panel at the San Francisco seminar discussed how the rollups have already radically changed bidding in Atlanta.

"I look at a market like Atlanta, where consolidation took five companies off the bid list and made just one, and I think it's



NOV ROT NOW WOLLDON YOU

just great," joked Scott Brickman, president of The Brickman Group, Langhorn, PA. "We hope they come to all of our major markets and do the same thing because the competitors they bought were all great competitors and now, there's just one. This is an advantage for the smaller guys."

"The smaller companies can grow in a market like that because the competition is less," agreed Richard Sperber, senior vice president of EII.

Asked if less competitors means lower prices, David Minor, chief development officer for TruGreen/ChemLawn, Memphis, disagreed. "There is an issue of less competitors but the competition will be stronger," he maintained.

"The larger companies bring best practices to the table and have their systems in place...it takes up the level of service that small companies will have to deliver."

Participants at the seminar agreed the inconsistent nature of landscape design/build and the entirely different nature of residential services make those areas less desirable for consolidation right now.

#### Some things won't change

No matter if a firm is a large consolidation or a single firm servicing residential customers, some constants remain: managing customer relationships, managing labor and growing profitably.

Consolidators and other contractors who are forward-thinking talk of incorporating "best practices" and staying close to the customers. Some companies like Tru-Green-ChemLawn will organize around a strong central management. And it will be different from the company's lawn care operation. According to Dave Slott, president, it will be an organization "based on collaboration, not domination."

Other groups will pattern themselves after Brickman's "model branch" or Valley Crest's decentralized branch operations. Some will focus on attracting the best people, others on providing the best return.

Because larger organizations will provide extensive employee benefits, defined career paths, opportunities to transfer to other markets and a variety of new responsibilities, smaller firms may feel an even harsher labor pinch. Then again, "economies of scale" also means "eliminating duplication" in the form of administrative and middle management at consolidating firms. This can be a great chance for independent firms to grab experienced employees.

"Our focus is to give high quality service, keep our prices down and constantly grow the business," said Scott Brickman, echoing most contractors, large or small.

LM

## S-N-G

"The Turf Revolution Has Begun!"

1-800-874-0253



#### FOOT CONTROLLED SPREADER

Mounts to almost anything. Best motor in the industry.

## **CONTAIN-O-SHELL**

CONTAINMENT POLYETHYLENE SPRAY UNIT





#### COMPATIBLE WITH ANY FULL SIZE PICK-UP

- · Contains Spills
- No Rust
- · Holds 30 Bags
- · Duel Tanks
- 330 Gallon Capacity
- Keeps Products Dry
- Equipped with Pump
- · 300 Foot Hose
- Electric Hose Reel



- · Foot Control for ON & OFF
- · Stainless Steel Adjustments
- · Variable Speed Propeller
- · Spreads Span From 6 to 24 Feet
- · Stainless Steel Side Deflector
- · Easy Adjustable Spread Pattern
- · Large Tank Sprays Over an Acre



## Who's consolidating?

## TRUGREEN-CHEMLAWN /LANDCARE USA,

Memphis, TN-\$650 million

By combining assets with Land-CARE USA, TG-CL currently ranks number one, with an annual revenue run rate of approximately \$650 million. When the deal closes in mid-March, it will look like this:

#### Characteristics:

- Platform companies include highly successful and visible firms in their markets
- Operated by ServiceMaster Corp., referred to as "the next best thing to cash"
- Coverage in major Sun Belt and other northern metropolitan markets, building density in those markets with acquisitions of many tuck-ins
- Plans to take advantage of existing TG-CL operations, branch structure, marketing, integration methods

**Target goals:** \$3 billion to \$4 billion in commercial landscape services in five years

**Looks for:** Opportunities to build a complete one-stop shop for services on a national account basis, leverage existing operations, acquire leading platform and tuck-in firms

#### **Questions:**

- ➤ Even for a firm used to acquisitions, integration will be a large and complex task.
- ➤ Will this division develop a separate identity, reputation, customer focus than other areas of business? Platform companies' high-end commercial clients are not the same people buying chemical lawn care. And landscape contracting operations are very different from lawn care services.

## ENVIRONMENTAL INDUSTRIES INC.,

Calabasas, CA-\$450 million

Former number one in revenues. Established and respected, Ell knows how to sell green industry services: landscape design/build, installation, maintenance, arbor care, golf course management.

#### **Characteristics:**

- Strong family orientation and traditions
- High profile and tenure in the industry
- Innovative and successful operation and service delivery systems
- Experience selling to large national/regional property management buyers
- U.S. Lawns franchises smaller landscape maintenance operations in many markets.

**Target goals:** Strong focus on internal growth for most operations, development of people, building stronger presence in key markets, building strong customer relationships

Looks for: Acquisitions limited to franchises of its U.S. Lawns division — usually smaller landscape maintenance firms or those in specific markets

#### Questions:

- ► How will Ell react as consolidators bring new pressures to the markets they serve?
- ► Will Ell get a head start as the consolidators learn to integrate?
- ▶ What new markets will Ell enter?

### THE BRICKMAN GROUP.

Langhorn, PA-\$175 million

A recent infusion of venture capital, as well as top-notch financial and management input from investors and officers has put Brickman on the fast track. Aggressive growth plans and the means to accomplish it will mean more acquisitions and expansion into new markets.

#### Characteristics:

- Strong family orientation and traditions
- High profile and tenure in the industry
- Innovative and successful operations and service delivery systems
- Follows customers and builds growth in those markets

Target goals: More than 30% growth (5 to 15% through acquisitions), continue to build customer relationships, overcome bigness, build quality

**Looks for:** Companies up to \$20 million in key markets

#### Questions:

- ▶ Will Brickman be able to incorporate expansion and continue to service customer relationships like it wants?
- ► What happens when its venture capital partners leave?

## THE DAVEY TREE EXPERT COMPANY,

Kent, OH-\$315 million

Davey wants to build on its strong and widespread arbor care and utility line-clearing businesses, in addition to growing its commercial landscape maintenance operations nationally. This also ties in logistically with the company's residential lawn care operations in many markets.

#### Characteristics:

- Long-lived company with strong culture
- Internally generated initiatives in research, education and business development
- Slow-track acquisition mode integrates new acquisitions carefully
- Experience selling and managing national and large regional property management accounts

**Target goals:** Growth rate of 8% to 12%, expansion in key residential tree care markets

**Looks for:** 1 to 3 tuck-in firms yearly, preferably high-end residential tree care experts

#### **Questions:**

▶ Will Davey venture into more commercial maintenance segments because of new consolidations, or will it focus more on arbor care?



#### GROWSCAPE LLC,

#### Houston, TX-\$80 million

New rollup will soon announce its 6 to 12 founding companies. A "buy and build," it targets the same land-scape-intensive markets as the rest, but with a vertical twist. This consolidation combines players across the whole green industry spectrum—nurseries, sod growers, garden products, landscape maintenance firms, tree care.

#### Characteristics:

- Principals are venture capitalists also consolidating in the telecommunications market.
- Expertise in business formation, management, consolidating systems

**Target goals:** Have a presence in top 25 to 30 metropolitan markets in four years, \$250 to \$300 million in revenues in the next 12 to 18 months.

#### Looks for:

- Company with a "specific niche" in the community
- Willingness to integrate to regional platform company

**Tuck in:** Annual revenue between \$1 million and \$5 million

**Platform:** Desirable location, good reputation, growth exceeding 15% /year, revenue between \$5 million and \$10 million, management to stay and grow business

#### **Questions:**

- ▶ Do the founders know enough about the green industry to make this work?
- ▶ Is vertical integration too complicated for buyers to handle?
- ► Are their expectations for performance realistic in this scenario?

#### RBI COMPANIES.

#### Littleton, CO—nearly \$300 million

"Poof" rollup or equity capital offering to debut in June, consolidating various landscape management and construction firms west of the Mississippi. Not into rapid consolidation. Still mum on many details.

#### **Characteristics:**

- Point person is Rick Randall,
   CEO of RBI Companies, Littleton,
   CO
- Landscape industry focus with some vertical construction elements
- · Located in six western states

**Target goals:** "Good, steady growth; good bottom line; good solid company; good work environment."

**Looks for:** Established firms, good matches, companies known to founding firms (yet to be announced)

#### **Questions:**

- ➤ Who are the founders and what exactly is their strategy?
- ► Again, will vertical consolidation be feasible?



#### GROUNDS CONTROL,

#### San Antonio, TX-\$60 million

Parent company is Sanitors, Inc., with majority ownership by Summit Partners, venture capital firm, Boston, MA. Selective consolidation of janitorial contracting and landscape contracting firms to offer "bundled" package of interior/exterior services to commercial, institutional, retail and industrial clients.

#### **Characteristics:**

- Landscape acquisitions being handled by Al Honigblum, Grounds Control, San Antonio
- Emphasis on premium companies with "Class A" accounts and management with long tenure
- Locations in three states so far, with several janitorial and land scape acquisitions in pipeline

**Target goals:** Deliberate growth. Three to five years to build \$250- to \$300-million company before going public

**Looks for:** "We want as our partners quality companies that we also would be proud to compete against and the desire to take their business to the next level."

#### **Questions:**

- ➤ Differentiating Grounds Control objective from that of other consolidators, rollups
- ▶ Will trend of "bundling" of services continue to grow among commercial. institutional clients?

## FIRSTSERVICE CORPORATION,

#### Toronto, Ontario—\$275 million

Provides specialty property and business management services in Canada and the U.S. Offers full palette of services from landscape maintenance to security to property management.

#### Characteristics:

- \$35 million in residential and commercial lawn, tree and shrub care and commercial maintenance services in Canada and Florida
- Manager of community associations in North America with '98 revenues of \$110 million
- Provides residential and commercial landscape and tree maintenance services in Canada and Florida

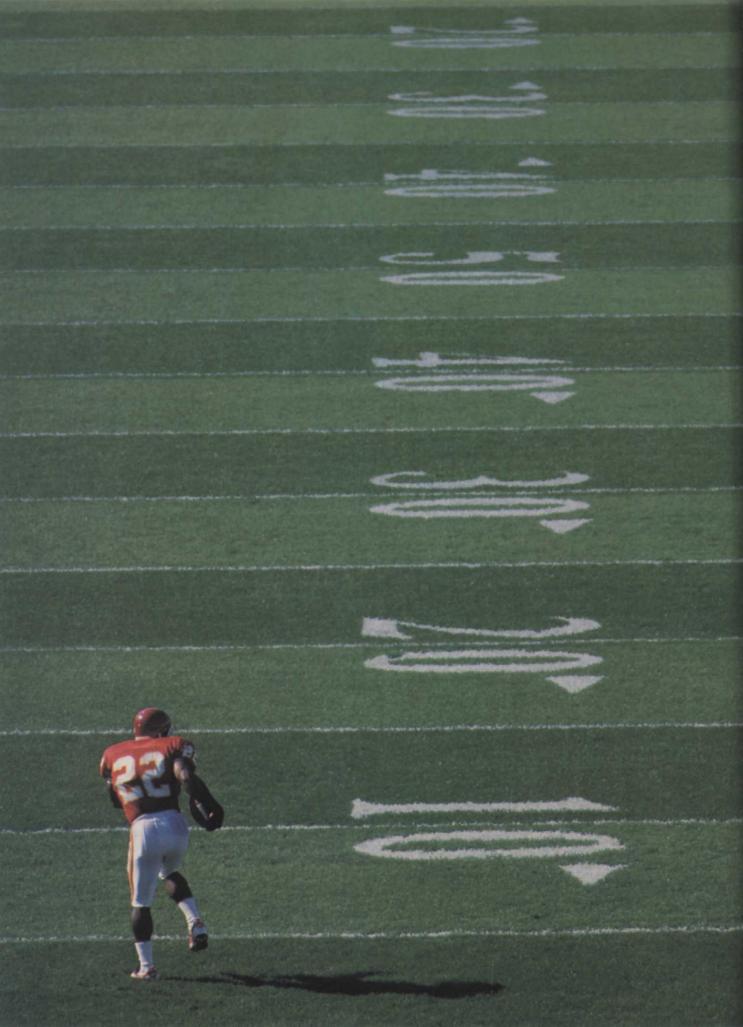
**Target goals:** Grow EBITDA and revenue by 10% and add at least two acquisitions in 1999.

**Looks for:** Tuck-under firms in key markets to complement services to existing customers.

#### **Questions:**

➤ Will this firm become more active in its acquisition search?

cont. on page 32



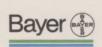
# IS TO GAIN MORE YARDS THAN YOU LOSE. SOUND FAMILIAR?

No, you may not have a three hundred pound nose guard breathing down your neck, but the lawn care business does have something just as imposing. The callback. And when you get hit by it too often, you can lose just as many yards. But one application of MERIT\*

Insecticide is all it takes to control grubs and callbacks. And fewer callbacks mean more time, money and labor you can use to gain more yards. For more information, contact Bayer

Corporation, Garden & Professional Care, Box 4913, Kansas City, MO 64120. (800) 842–8020.

http://usagri.bayer.com





ALWAYS READ AND FOLLOW LABEL DIRECTIONS
© 1998 Bayer Corporation Printed in U.S.A. 98S19A0173

cont. from page 29

#### ONESOURCE,

Atlanta, GA-\$790 million

Until Jan. 1999 known as ISS. Integrated services designed to fit property managers' needs, operating offices in 39 states. This company seems to tailor to the true property management buyer.

#### Characteristics:

- OneSource (formerly ISS) is largest operating part of BHI Corp., headquartered in Belize City, Belize, which acquired ISS in 1998
- Janitorial, cleaning services, pest control, landscape services to 10,000-customer base
- Ron Schmoyer is president of Landscape Division of OneSource.
   Landscape Division generated revenues of about \$45 million in 1998
- Landscape branch offices in FLA, GA, VA, TN, and PA.

**Target goals:** Establish landscape presence in Midwest and West Coast

**Looks for:** Established firms that can be incorporated into OneSource philosophy of one-stop facility management services

#### **Questions:**

- ► Finding additional management to manage growth
- ➤ Fitting acquisitions into concept of single management culture

#### QUANTA SERVICES INC.

Houston, TX-\$209 million

Rollup consolidation focused on servicing the electrical and telecommunications industries that has bought landscape contracting and utility line-clearing/arbor care firms in California.

#### Characteristics:

- Located mainly west of the Mississippi
- IPO on the New York Stock Exchange early in 1998

**Target goals:** Growth servicing its market sectors

**Looks for:** Acquisitions of firms servicing utilities and telecommunications customers, primarily for utility line-clearing operations.

#### Questions:

► Will it advance more into the arbor/vegetation management portion of the landscape industry? If so, how will this affect existing firms?

## Walk the walk, talk the talk

You can understand the consolidators' strategies by understanding their language. Here are some of the key phrases to know.

Rollup A consolidation that rolls-up into one

combined operating unit.

'Poof" IPO When consolidating companies merge on

the day they go public — Poof! — the individual companies magically form one

large public firm.

Beachhead, platform, geographic footprint Consolidators love these military terms.

They want a big presence in key markets.

Bolt-ons, tuck-ins No, it's not plastic surgery. These smaller firms roll into "beachhead" firms to bring "density" to a market. These usually run \$1

to \$5 million in revenues.

BUYING:

Vulture capital

An unkind term describing private venture capitalists who invest for brief periods of time (2 to 5 years typically) to reap huge returns on their investments (upwards of 30%). Many are consolidators; others become one firm's strategic partners (see

Brickman).

Due diligence Buyers verify seller's information about the

company, competition, customers and

performance.

"Sniff test" Due diligence + intuition.

"Missed the deal," "bad deal" Due diligence turns up misunderstandings, fallout. You still own the company.

**SELLING:** 

Exit strategy Before you sell, get one. Decide what you

want to do, then you'll have a plan.

EBITDA Get used to this one: "Earnings before interest, taxes, depreciation and amortiza-

tion." It's how investors see real value.

Addbacks For once, you can forget Uncle Sam and get

real about your expenses and earnings.

od Bailey calls these "exciting" times in the landscape industry. They offer previously unforeseen opportunities for the people in it. That's one of the reasons, he says, he sold his Evergreen Services Corp., Seattle, to TruGreen-ChemLawn late in 1998.

"I think we satisfied ourselves that the people in our organization would have much better opportunity in the future than if we continued to hold onto it ourselves," says Bailey. "We were a highly leveraged company and our ability to finance our growth

# Hold 'em or fold 'em?

This is not an easy decision to make. We talk to contractors who have sold, who may sell and who want to stay independent.

was holding back our ability to grow.

"This [sale] created a very exciting atmosphere and environment for our people to become a part of what's happening on the national scene. It gave them a bigger sandbox to play in, so to speak — particularly our key people."

Bailey, 61, also points to his age as one reason why he and his partner, also in his early 60s, sold.

For Bailey anyway, the decision to sell to TG-CL made a lot of sense. "Our people are being taken care of, the price was right and it provided me with an exit strategy," he explains.

Many landscape company owners want to continue running their own operations. They're getting their financial houses in order. They're strengthening, rearranging and/or adding to their service mixes to compete against the developing national companies.

#### We wanted to know

"We were concerned about what really was taking place in the market," says Jeffrey T. Heine, President of TurfMasters, Inc., Dayton, OH. That's why he and General Manager Patrick O. Prine attended the recent Landscape & Lawn Care Mergers & Acquisitions Institute in San Francisco, which was sponsored by Fulcrum Information Services Inc.

"The consolidation hasn't hit our area of Ohio yet, but we want to be poised and ready for it when it does come," he adds. "We're either going to be ready when the national companies come to town or we're

going to lose some things."

Along those lines, Heine is investigating adding services like interiorscaping and tree care to his 13-year-old company that has landscape revenues of about \$2 million. He feels that the national companies will approach large commercial/corporate customers with a one-stop facility management services package.

"You're either going to have to get in the pen and fight with the big dogs, or you're going to roll over and keep your little niche-type markets," says Heine.

John Gachina, President of Gachina Landscape Management, Menlo Park, CA, says he's not ready to sell his business yet either.

"Things are going well with my company, I'm having a good time and I have a young family, so the timing isn't right for us," he says. "I'm pretty certain that there's always going to be a place

for quality companies that have a strong presence in a particular market.

"Sure, we're going to have competition. Sure, somebody's going to come in that can, maybe, beat us on price. But, we complete on more than just price."

Gachina says, if anything, the threat of comcont. on page 38



Gachina believes independents can compete.

## They cut anything.

#### \$2,199\* Gear Drive 1336

- 13 HP Kohler Command
- 36-inch Mower Deck,
   7- and 10-gauge Steel
   Construction
- 5-speed Peerless Transmission
- Thru-Bolt Spindle with Tapered Roller Bearings
- Welded, Steel I-Beam Front Caster Arms
- Dual Notched Drive Belts with On-The-Go Vari-Touch Traction Adjustment
- Five-gallon Fuel Tank
- Optional Bagger, Mulching Kit



#### \$3,999\* Wide Track 1852

- 18 HP 2-Cyl. OHV Vanguard
- 52-inch Mower Deck,
   7- and 10-gauge Steel Construction
- Dual Hydrostatic Transmissions
- On-The-Go Tracking Adjustment
- Electric Start and Back-up Recoil Start Standard
- Tapered Roller Bearings in Spindles
- 16-inch Drive Wheels, 41-inch Width Tire Stance
- Five-gallon Fuel Tank
- Optional Bagger, Mulching Kit



## **\$6,499\*** Zero Turn Mid-Mount 2554

- 25 HP Kohler
- 54-inch Mower Deck (60-inch also available)
- Dual Integrated Hydro Transmission
- 9.0 MPH Fwd./ 4.5 MPH Rev.
- 24-inch Rear Turf Tires/ 13-inch Front
- Pivoting Front Axle

- One-piece
   Welded Frame
- 3-way Adjustable Lap Bar Controls
- 78-inch Overall Length, 50-inch Wide Stance
- 980 lb, 9 PSI Flotation for Less Turf Defacement
- 10-gallon Fuel Capacity





FOR THE PRO. BY THE PRO.

American-Made. American-Owned.

\*Actual retail prices are set by dealer and may vary. Freight and set up/handling charges may be additional and may vary



# FOR THE PRO. BY THE PRO.

Yes, I'd like more in professional lawn	nformation about the con care products.	nplete line of	MTD Pro
Yes, I'm interested	d in becoming a dealer.		
Business Name			N. O. L.
Address	No. of the Contract of the Con		
City	County	State	Zip
Phone ()	Fax ()_		
Type of Business			
Number of Years in Busines	ss Number of Er	mployees	
For more information call to	Il free 1-877-MTDPRO1		

MTD ProLM

# **BUSINESS REPLY MAIL**

FIRST-CLASS MAIL PERMIT NO. 1379 CLEVELAND OH

POSTAGE WILL BE PAID BY THE ADDRESSEE



P.O. Box 361131 Cleveland, OH 44136-9806 NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES







# The MTD Pro direct buying advantage goes direct to your bottom line.

Making your equipment buys for 1999 involves a lot of big decisions. But we thought we'd make it easier for you. By making MTD Pro and your MTD Pro dealer your one source for a full line ... for unsurpassed value ... and for lasting support.

- 1. Product We talk to the pros; we listen; and then we go to work. Building only professional quality equipment from zero-turn riding mowers and walk-behinds to spreaders, sprayers, and hand-held blowers, trimmers and hedge clippers. All at specifications that meet or beat the competition.
- 2. Value Because we sell factory direct nationally through our dealers, instead of through a lot of smaller, scattered distributors, you save without sacrificing quality or features. It becomes even more affordable when you take advantage of our attractive commercial financing and flexible leasing plans.
- 3. Support MTD Pro dealers are full service dealers, always there for you after the sale and to keep you up and running. You also get the backing of a full 2-year commercial warranty (including transmission).

Take the Pro Challenge and see the direct advantage MTD Pro has over the competition. Just call us direct to find your nearest MTD Pro dealer.

Call toll free 1-877-MTD PRO1 for the dealer nearest you. Ask about our attractive commercial financing and flexible leasing plans. Check out our new website at www.MTDPro.com.

cont. from page 33

petition from much bigger companies has reinforced his belief that providing the best possible customer service, including keeping in contact with each customer, will be vital to continued success in providing landscape services.

"We're definitely going to have to get better at marketing ourselves," he adds. "They're going to be able to come out with very good marketing pieces, they're going to hire professional marketing people and they're going to go at it hard."

# We must be more efficient

Deborah "Andee" Bechtold, owner of Longhorn Maintenance, is content to build her own niche in the north Dallas marketplace. Longhorn provides design/build, irrigation repair, fertilization/weed control and pest control. She's avoided committing too much of her company's resources to maintenance, not out of fear of competing with the national companies, but because of the price cutting of part-timers.

To remain competitive, Bechtold has been trying to reduce labor costs and increase efficiency with more productive machinery. "The market keeps changing," she says, "but labor is still everything."

Brookwood Landscape Company has considered offers from several suitors, but Vice President Mark Wilhite says there's no rush to sell the 30-year-old San Diego-based firm. He and his brother, Glenn, operate the business along with their father and company founder, Keith Wilhite. Brookwood is a 365-

# What's hot, what's not for consolidators

# Hot

Landscape maintenance
\$1- \$15 million in revenues
Sun Belt
Team players
"Better, faster, bigger"
Financial acumen
Customer relationships
Your deal "team"
Commercial services

# Not

Landscape design/build
Less than \$400,000 revenues
Northern Plains
Mavericks
"When we're ready and no sooner"
"My accountant handles that"
Environmental liability
Do the deal by yourself
Residential services

# Are you on the "A" list?

Most consolidation experts say they are seeking profitable landscape contracting firms offering the "right" mix of services, location and growth potential. Their numbers vary for companies between \$450,000 to more than \$20 million. Besides the obvious financial health aspects of your business, what else will turn a buyer's eye? Here are a few factors that will make your company more attractive to a buyer:

**Strategic fit:** Entry into new markets or services, quick growth, more density within a market, specific customers or equipment or other assets

**Financial:** Internal growth rate & potential, EBITDA of at least 10% and preferably higher, 80 to 85% customer retention rate

**Off-balance sheet items:** Great management, employees, systems, "culture," customer relationships, expense synergies, etc.

day-a-year operation that maintains many of San Diego's most upscale malls and other commercial properties.

"If all things were the same we would probably like to just keep on working the way we are," says Mark. "But, since the industry is changing so dramatically we thought had better consider this and make a decision."

Mark says that he and his brother are too young to retire and that they would like to keep operating Brookwood. "It's fun. We like it. We have



Mark Wilhite says he and his brother want to stay.

so much opportunity to grow this company. We absolutely want to stay on and run this company," he says — even if Brookwood Landscape is sold. **LM** 

# Selling? Get help now

They say you have a fool for a client if you act as your own lawyer. Don't rush into a sale or do it alone. Consultants and advisors offer lots of choices and smart advice.

elling your landscape company? One of the biggest decisions you have to make is: Do it yourself? Many owners have. Others use the help of a consultant or business broker. If you are heavily involved in the day-to-day operations of your company, this might be a wiser course.

Trying to market and sell your landscape company while also running it could be a strain on even the sharpest operator. And keeping news of your activities from leaking to your organization and affecting it would be almost impossible.

# Find outside help

Who can help you market and sell your company? There's no lack of candidates. If you've worked with business consultants in the past and they've helped you, start with them. But there are also plenty of newcomers to the green industry—sale advisors and brokers.

"Often, owners aren't trying to sell their companies, but a firm contacts them and says, 'We're interested in buying a company like yours,' so the owner decides to sell," says green industry consultant Ed Wandtke, Columbus, OH. "You can sell the company for whatever you think it's worth, but you should get an indication of your company's value with a valuation before you decide to sell. Otherwise, how do you know if you're getting a reasonable offer?"

Wandtke says landscape company owners, particularly those thinking about selling, are asking themselves two primary questions:

- what is my company worth?
- what do I do after I sell my company?

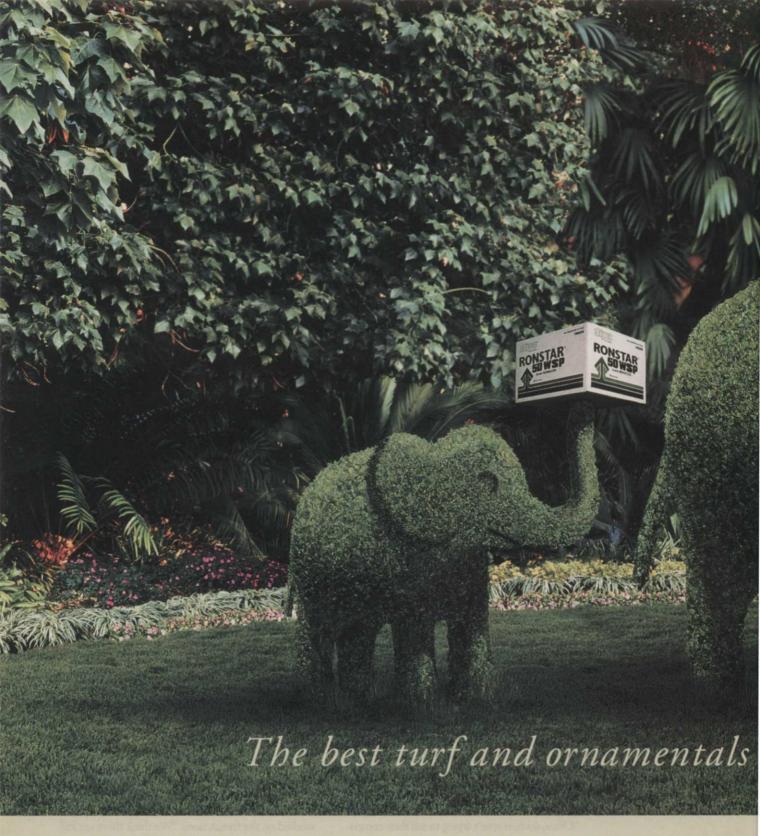
He says he can help them with the first question and, in fact, is getting lots of calls from owners investigating how marketable their companies are. It's up to the individual owner to decide if he or she wants to step down though, even though some buyers require a two to three-year commitment, he says.

The Corporate Finance Group of KPMG LLP, one of the nation's "Big Five" accounting, tax and consulting firms, represented three sizable landscape companies, including Ruppert Landscape Co., that were acquired by larger companies this past year.

"We're looking to advise more green industry companies," says Sean Sands, a KPMG director who worked on the transactions. "We think there are still a lot more landscape companies that would be a good match for us."

He emphasizes that his company acts as a financial advisor, not a broker. "We advise companies from the start, including assessing the company's worth and marketing. We're there all the way through the negotiations," he says. "With a focus on

cont. on page 42

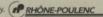


You've known for quite a few years that CHIPCO® RONSTAR® herbicide is the most valuable tool you have for keeping tough broadleaf and grassy weeds out of the turf and ornamentals you care for. But, did you know that this proven performer is now available as a sprayable formulation in two convenient sizes that are ideal for big or small jobs? It's true. CHIPCO® RONSTAR® is now available in both one and one-half ounce and one-pound water soluble packages. That means that you can keep crabgrass, goosegrass and more than 20 other broadleaf and grassy weeds out of sight



all season long no matter how much ground you have to cover. And the new water soluble packaging means that you can now tank mix CHIPCO® RONSTAR® with Roundup® for use as a directed spray on landscape beds and other non-turf areas. Of course, you'll still get all of the other CHIPCO® RONSTAR® advantages, like no root pruning, no leaching, and season-long protection from just one spring application. This year, keep your customers satisfied with CHIPCO® RONSTAR® herbicide in two easy-to-handle sizes.

trademark of Monsanto. As with any crop protection chemical, always read and follow instructions on the label. ©1997 Rhône-Poulenc Ag Company.



# **Staying** independent? Check your options

Consolidation brings both threats and opportunities:

# Potential problems or threats

- 1. Cost-efficient competitors may offer low prices.
- 2. Sophisticated, expensive marketing efforts to win customers.
  - 3. Ability to offer "one-stop shop."
- 4. Added services and geographical coverage means entry into new service niches.
- 5. High-visibility name recognition, professional image.
- 6. Ability to leverage debt for further growth while tweaking economies of scale.
- 7. Continuing success will encourage more independents to consolidate.
- 8. Tougher competition for labor they can offer year-round employment, topnotch training, new career paths and outstanding benefits. Can you?

## Potential opportunities or advantages

- 1. Provide subcontracted services to consolidators, or subcontract to other independent firms.
- 2. Continue growth and expansion in your markets.
- 3. Niche services and high-end/high-quality services can continue good growth.
- 4. "Coat-tail" effect of highly visible national consolidations will heighten awareness of professional landscape services.
- 5. Consolidators will not win every con-
- 6. Smaller, flexible firms are quick to respond, innovative and able to develop close customer relationships.
- 8. Independents need not answer to stockholders, investors, outside directors or financial analysts' expectations.
- 9. Opportunity to grab downsized senior and middle administrative people.

cont. from page 39

shareholder value, we bring both industry professionals and functional experience in critical areas such as tax and financial deal structuring, valuations and due diligence."

# Plenty of shoppers

Mike O'Mara, Acquisitions Management Group, Houston, TX, represents potential sellers in several contracting markets — mechanical, electrical, landscape and janitorial - all of which are in a state of furious consolidation.

A onetime landscaper himself, O'Mara says landscape business owners don't have time to be aware of all potential buyers. In addition to the large national consolidators, there are others, including a surprising number of regional buyers.

"We come across a lot of private buyers who are looking at either buying in a couple of cities or, maybe, in a region," says O'Mara. "Some want to expand their market, some are toying with the idea of a mini-rollup or maybe they want to build a base to sell to a larger consolidator."

Jim Hermann, Mergers & Acquisitions Advisor at The Geneva Companies, Irvine, CA, says his company maintains a proprietary database of about 130 active buyers interested in purchasing companies in the landscape contracting and planning, lawn and garden services and ornamental shrub and tree services industries. Of those buyers, 26% are investment groups, 33% are corporations and 41% are venture capitalists, individual investors, merchant banks and other investors.

If you decide to use a consultant to help you sell your company, do your homework. Find out as much as you can about them, their track record and their fees before you enter into any binding agreements.

# **Find your strategy**

Contractors sell their businesses for a number of reasons, most of them good: it's the right exit strategy; the price is

right; more opportunities for employees; greater growth potential for the business; different new challenges in a corporate structure; and others.

According to James Marcus, Director of Corporate Development, Four Seasons Landscape & Maintenance (LandCare USA), Foster City, CA, it's finding the right strategy for you that matters. As someone who recently sold his company to LandCare

# Why should you sell?

- Lack of operating capital
- Need for growth capital
- ► Elimination of personal guarantees
- ► Age
- ► Health
- ▶ Boredom/burnout
- ► Liquidity/cash Out
- ▶ Unreasonable risks

The two worst reasons to sell are age and health, because they usually rush the process, according to James Hermann, M&A Advisor, The Geneva Companies, Irvine, CA.

USA and currently works with contractors thinking about selling, he sees four major op-

- Stay independent. There are huge opportunities for growth through internal measures or through acquisitions of your own.
- Consolidate regionally. All consolidations don't have to be national. In fact, some buyers like to buy on a more localized basis.
- Partner regionally. Loosely based partnerships with other firms can give you regional marketing and buying clout without having to deal with a cumbersome consolidation.
- Merge upstream. Large consolidations bring financing, management systems, national scope, economies of scale and a number of other advantages that can help your business grow in the long term. LM



(Sorry, we didn't think you could hear us above the roar of your current trimmer.)

> Kawasaki has a new line of string trimmers, hedge trimmers and blowers. They're lighter, more powerful and quieter than other brands. Try one. You'll like what you don't hear.

Call Toll Free 1-877-KAW-POWR THE THE THE PARTY OF THE PARTY

for a Kawasaki dealer nearest you.

# Ask about

Get Free Stuff when you try or buy a new Kawasaki Professional Turf Product at participating dealers. Give Em a Whirl today

Limited time offer, while supplies last

Circle No. 135 on Reader Inquiry Card

awasaki

Professional Power Products

www.kawpowr.com

American Honda HRC 7113TXA



They may look similar, but the walk-behind mower at your dealer's shop is not the same as the one that has been serving your business for the past several years. Improvements in ease of deck adjustment, user-friendly hand controls, fuel efficiency and noise reduction make the 1999 models worth con-

sidering.

In most operations, it is the walk-behind mower that provides the finishing touches to any job. In some cases, it's the only machine required.

Like everything from rakes to pick-up trucks, the price of mowers has gone up. But the features available in today's mowers mean that they will pay back their additional cost in a relatively short time.

AMERICAN HONDA

# 770/497-6000 www.honda.com

The new TruGear mid-size, walk-behind mowers from Honda, Duluth, GA, offer an attractive price point, and feature gear drive with no internal drive belts. The HRC 7113TXA is available with a 36- or 48-inch deck. The 13- hp OHV Honda engine runs for a long time thanks to the 6-gallon fuel tank. Transmission is a twin, 4-speed gear with ball bearing supported axles. Units have four forward and one reverse speed. Hour meter is standard. Optional 54-inch sweeper or 38-inch snow blower attachments are available.

Circle No. 250

# ARIENS 920/756-2141

### www.ariens.com

The Ariens 21-inch commercial mower line is manufactured in Brillion, WI, of 14-gauge steel and solid steel axles. Available as a push- or self-propelled unit, it has the option of mulching, bagging, vacuuming or side discharging — all from one machine at one price. The multi-position handlebar is ergonomically shaped to reduce wrist and hand fatigue. A 6-hp, overhead-valve, Robin engine features full-pressure lubrication, full-flow spin-on oil filter, a cast-iron cylinder liner and half-gallon fuel tank. The Disc-O-Matic drive on the self-propelled model allows ground speeds between 0 and 4 mph at full engine rpm.

Circle No. 251

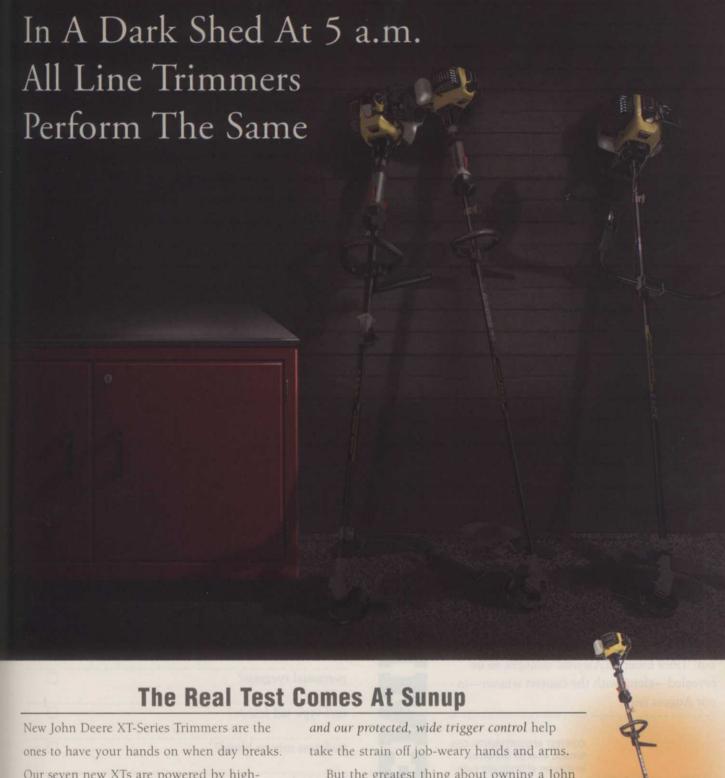
# JOHN DEERE 800/537-8233 www.deere.com

One lever controls the speed, direction and tracking of the hydrostatic wide-area commercial walk-behind mowers from John Deere, Research Triangle Park, NC. The 14-hp HD45 and 17-hp HD75, equipped with an overhead-valve 4-cycle gas engine, provide easy starting, improved fuel effi-

cont. on page 48



Howard Price Hydro Walk-Behind features dual hydro control levers. Floating deck system oscillates to prevent scalping.



New John Deere XT-Series Trimmers are the ones to have your hands on when day breaks. Our seven new XTs are powered by high-performance M-Series engines with intake silencers and low-tone mufflers for quieter operation. And power-to-weight ratios among the best in the industry. By the way, our engines are also EPA and CARB compliant, something not all manufacturers can say.

John Deere XTs will work hard 'til sundown and not take it out on you. A new comfort grip

But the greatest thing about owning a John Deere is having access to the *best parts delivery system in the business*. In most cases, we can deliver emergency parts to your door in 24 hours or less.

Don't wait 'til dawn to see the light. Pick up a new XT Series Trimmer now. For the John Deere dealer nearest you, call 1-800-537-8233.

Or visit us online at www.deere.com.





# WIN \$500

ANNOUNCING: The Third Annual LANDSCAPE MAN-AGEMENT "Emerald Awards." LANDSCAPE MANAGEMENT magazine is offering a \$500 first prize to the winner of a random drawing to be held on July 1, 1999. Second prize is \$300 and third prize is \$200 in cash. To be eligible for the drawing, simply fill out the questionnaire at right and return it

to our editorial offices.

Answers to the questions will determine our "1999 Emerald Awards" winners, to be revealed—along with the contest winner—in our August issue.

CONTEST REQUIREMENTS: Contestants must be owners or employees of landscape main-

tenance companies, lawn care companies or landscape contracting firms; or an athletic field manager or member of an athletic field maintenance crew; or manager or member of a facility landscape management crew. Product selections must be currently used by entrant.

Employees of Advanstar Communications or their families not eligible.

All questions on this entry form must be completed, and all blanks filled. One entry per person. No more than five entries from any one employer will be allowed. Entry forms will appear in the February through June, 1999 issues of LANDSCAPE MANAGEMENT.

Completed questionnaires should be mailed to: Emerald Awards, Landscape Management, 7500 Old Oak Blvd., Cleveland, OH 44130. They must be received by noon, July 1, 1999.

A random drawing of all eligible entry forms will be held July 1, 1999. Winners will be notified within 24 hours.

# **OFFICIAL ENTRY FORM**

# **OUESTION:**

What is your favorite brand name of	CHECK HERE IF YOU DO NOT USE
riding mower?	
walk-behind mower?	
turf fertilizer?	
pre-emergence herbicide?	
post-emergence herbicide?	
turf insecticide?	
turf fungicide?	
plant growth regulator?	
compact tractor?	
turf aerator?	
pick-up truck?	
leaf blower?	
line trimmer?	
chain saw?	
Kentucky bluegrass?	
perennial ryegrass?	
turf-type tall fescue?	
turfgrass mix or blend?	war Design
biological control product?	

NAME:

EMPLOYER:

CITY/STATE:

PHONE NUMBER:

(

999 EMERALD AWARDS

# We'd like to show you the weeds PENDULUM' controls. But they never showed up.

herbicide is a highly effective preemergent turf herbicide.
Compared to the competition, PENDULUM demonstrates a higher level of control across a broader spectrum of weed species.
With PENDULUM, weeds won't ever see the light of day.
For the PENDULUM herbicide distributor nearest you, call: 1-800-545-9525, Ext. 1676.



PENDULUM offers unsurpassed weed control								
Herbicide	Crabgrass	Goosegrass	Foxtail	Poa Annua	<b>Oxalis</b>	Spurge	Henbit	Chickweed
PENDULUM				0		0		
Barricade <sup>a</sup>		0	0	0	À	0		
Dimension <sup>b</sup>		0		0		0	0	0
Team <sup>c</sup>		0	0	0	0	0	NR	NR
Ronstard	0		NR	0	0	NR	NR	NR
Surflanc				0	A	0		

Level of control

Medium

▲ Medium-High

■ Hia

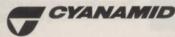
**NR** Not registered

and Immediate with the control of the

bl™ Rohm and Haas Co

○ Dow AgroScience

<sup>6™</sup> Rhône-Poulenc





# >LM REPORTS

cont. from page 44



One lever controls the speed, direction, tracking of John Deere walk-behind units.

ciency, lower noise levels and cooler operating temperatures. Choose from a 36-, 48- or 54-inch deck. The larger two decks are equipped with spring-loaded quick-pull pins for fast, easy cutting height adjust-

Circle No. 252

# FXMARK 402/223-4010 www.exmark.com

The Turf Tracer, from Exmark Mfg. Co., Beatrice, NE, comes with 36-, 48- and 53-inch full-floating TriVantage decks. Mowers offer true zero-turn and instant forward-to-reverse to maximize maneuverability. Ground speeds to 6.2 mph forward and 2.2 in reverse increase productivity. Feather-Lite grip tension and reduced grip-distance steering controls make the units easier to use. The hydro drive system has a 2-year warranty, the spindle assembly is guaranteed for 3 years.

Circle No. 253

# **FERRIS INDUSTRIES** 800/933-6175 www.ferrismowers.com

The HydroWalk DD from Ferris Industries, Munnsville, NY, has an extremely wide and low stance that creates excellent traction and stability. Like all Ferris mowers, it features lap-welded corners to reduce stress and not crack like butt-welded corners, and double-strength steel in wear areas. Large 18 x 7.5-inch drive tires are standard. Available with 48-, 52- or 61-inch deck, and 14-, 17- or 18-hp Kawasaki or Briggs & Stratton engines. Unit has

a reliable Eaton 771 hydrostatic transaxle and cast iron spindle pulleys with tapered hubs for positive locking and easy removal. Threeyear commercial warranty is industry's longest.

Circle No. 254

# GRAVELY 920/756-2141 www.gravely.com

Several models and options of Pro commercial mowers are available from Gravely, Brillion, WI. The Pro 300 is available with a 20-hp Kohler Command or a

14-hp Kawasaki OHV engine. Variable speed hydrostatic transmission offers speeds up to 5.5 mph forward and 1.5 mph reverse. Electric clutch is easy to operate. Seethrough hydraulic reservoir lets operator check oil level at a glance. The Pro 200 line comes with either the 14-hp Kawasaki or an 18-hp Robin V-twin engine. 4.5 gallon tank makes for long run times at 2.0 to 5.5 mph forward or 3 mph in reverse. All 200 and 300 mowers can be equipped with 36, 40, or 50inch decks.

Circle No. 255

# **GREAT DANE** 812/246-8770

The zero-radius turn Scamper from Great Dane Power Equipment, Sellersburg, IN, comes with 36-, 48-, 52- and 61-inch cutter decks. There is a simple blade brake-clutch control with no bails, and fail-safe controls: when the operator lets go there is instant traction stop. Engine options include a 14-hp Kawasaki, and twin-cylinder 18- or 20-hp Kohler electric starts. There is a dual hydro drive system with independent left/right wheel control and ground speeds to 6 mph in forward, 3 mph in reverse.

Circle No. 256

# LAWN-BOY 612/888-8801

The 21-inch Lawn-Boy Commercial is powered by a 6.5-hp Dura-Force engine. Staggered wheel design provides easier maneuvering and reduced scalping. Fuel tank holds 4.25 quarts of gas. Unit, made by Toro, Bloomington, MN, has a lightweight cast-aluminum deck, steel wheels and cast iron sleeve. It is EPA-certified and carries a 2-year commercial engine warranty. Mulching kit and bagging kits are optional, but the forward-positioned discharge chamber disperses clippings at the fastest point, virtually eliminating windrowing or clumping.

Circle No. 257

# **LESCO** 800/321-5325 www.lesco.com

For operations on difficult terrain, the Lesco 48-inch and 54-inch Float Deck rotary mowers are the



mowers tame difficult terrain.

answer. Floating deck with pneumatic caster wheels and fully articulating front axle assures precision cutting. Deck is designed for maximum air flow for even dispersion of clippings. Height adjusts on four-pin system. The 48-inch version comes with a 17-hp electric-start Kawasaki, the 54-inch with a 20-hp electricstart Kohler. Both have 5-gallon fuel tanks and true zero-turn radius.

Circle No. 258

# MTD PRO 330/225-2600 www.mtdproducts.com

The 1852 wide-track, dualhydro, commercial mower from MTD Pro, Cleveland, OH, offers an 18-hp Vanguard V-Twin engine and a 52-inch fixed fabricated cutting



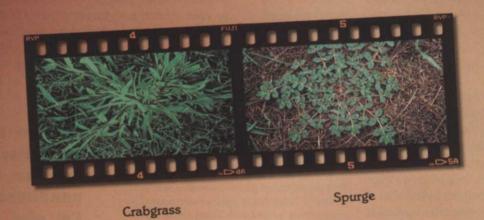
# Hydrostatic deck allows onthe-go tracking with MTD unit.

deck. Dual hydrostatic transmission allows on-the-go tracking adjustment while 5-gallon tank keeps the unit working. Electric start makes it easy to get the mower going and the standard backup recoil spells reliability. Tapered roller bearings in the spindles add reliability and increase life. Mulching kit and bagger





Great Dane Scamper offers 36-, 48-, 52- and 61-inch cutter decks.



# Get for the price of ONE.

W ith Team\* Pro herbicide, you truly get more than you bargained for. You probably already know Team Pro is the most consistent crabgrass herbicide around. But what you may not realize is that it also does a heck of a preemergent job on broadleaf weeds as well. With protection against both crabgrass and broadleaves, Team Pro provides the best weed control for your money.

So how does it work? Team Pro is the only herbicide that uniquely combines the Power of Two. With a unique blend of two consistently effective herbicides, Balan\* herbicide and Treflan\* herbicide, Team Pro increases weed-killing activity. Each individual herbicide is designed for a specific task. Balan is a quick-acting crabgrass herbicide. And Treflan provides long residual control of broadleaves as well as crabgrass. When these two powerful herbicides are combined, the end result is a formula that's unrivaled in strength and versatility.

Next time you want protection against both broadleaves and crabgrass, get the Power of Two. Get Team Pro.

# Team Pro gives you more weed control than you bargained for.

You can always count on the most powerful crabgrass control around with Team Pro herbicide. But you also get increased preemergence prevention of key broadleaf weeds.

This unmatched control is possible because Team Pro uses a unique blend of Balan and Treflan herbicides. Working side by side, this potent duo protects lawns from unwanted breakthroughs of crabgrass, goosegrass, spurge, oxalis and other weeds.

Besides being the most versatile herbicide around. Team Pro is a powerful herbicide that won't harm established

turfgrass or ornamentals. And, unlike pendimethalin, Team Pro won't leave you or your customers' property badly stained. Next time you're looking for a versatile

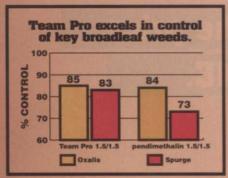
herbicide, remember, only Team Pro gives you the Power of Two.

"Team Pro gives me far better weed control for the money than pendimethalin does. I'm glad I switched."

> Chris Scaglione Spring Green Lawn Care, Englishtown, NJ



This unretouched photo illustrates just how powerful Team Pro is against crabgrass. The sample was treated with Team Pro at recommended use rates, then overseeded with crabgrass at a rate greater than 700 lbs/acre. The results were photographed one week after seeding. If Team Pro is this tough on crabgrass, just think what it can do for your broadleaf problems.



Average of trials conducted in 1997 in California and Missouri. All rates in lbs a.i./acre. Oxalis results measured 12 weeks after treatment. Spurge results measured 14 weeks after treatment.



Average of trials conducted in 1997 in Indiana, Kentucky, Nebraska, New York, Rhode Island and Virginia. All rates in lbs a.i./acre. Results measured 16 to 20 weeks after treatment.

# Benefits of Team professional products:

# Power of Two

- Consistent crabgrass control
- Economical crabgrass control
- Broadleaf weed control
- Wide zone of activity

# Quick activity

- Long residual
- Non-staining
- Turf safety
- Prescription formulation options



# >I.M REPORTS

cont. from page 48

are available as options. The MTD Pro is targeted to commercial uses, while the company's Cub Cadet, White, Yard-Man and Yard Machine lines are for residential use. Circle No. 259

# **HOWARD PRICE TURF** EQUIPMENT 314/532-7000

The Hydro Walk-Behind from Howard Price, Chesterfield, MO, features dual hydro control levers. They allow the operator to independently set each drive wheel's speed. The unit's floating desk system oscillates nine inches to prevent scalping in tender grass areas.

Circle No. 260

# PRO INC. 318/635-8184

# www.promowers.com

The Pro Rolling Trimmer/Mower is a professional-grade high-wheel unit that uses monofilament cutting line. The RTM is engineered in Shreveport, LA, to provide a consistent cutting height when trimming under fences and shrubs, along buildings, or around trees. Fixed-line cutting head accommodates fourline or two-line use and offers widths up to 25 inches. It accepts any diameter line from 0.08 to 0.155. It comes with commercial grade 2- or 4-cycle engines, ranging from 5 to 6 hp. Belt idler system allows engine to keep running when the cutting head is disengaged.

Circle No. 261

# **ROOF EQUIPMENT** 909/354-7600 www.roofmowers.com

The new 39400K Piranha walkbehind trimmer mower from Roof Equipment, Riverside, CA, is designed to cut wet or dry weeds or grass at amazing speed. It features a 5-hp, overhead-valve, Kawasaki engine, solid aluminum 1.5-inch cutting head, and uses 0.155 mil thick monofilament cord for more effective cutting. Large 20-inch wheels with precision bearings roll easily. New sprint-loaded clutch prevents premature belt failure.

Circle No. 262

# SARLO POWER MOWERS 800/749-5296

A couple of tough string mowers

from Sarlo, Ft. Myers, FL, offer quick, tool-free height adjustment. The 16inch high rear wheels feature ball bearing hubs, steel rims and spokes, and thorn-resistant tires. The pushversion Sarlo SST61/C and the selfpropelled SST6SPVC provide a 22inch cut. A 6-hp engine can be either a Honda or Kawasaki. Sarlo's string trimmers have four high-speed trimmer lines to assure even cutting. There are no spools to jam and the spindle's anti-tangle design comes with a five-year warranty.

Circle No. 263

# **SCAG POWER EQUIPMENT** 920/387-0100

### www.scag.com

The Ultimate Hydro walk-behind from Scaq, Mayville, WI, features an easily adjustable floating cutter deck with field-adjustable heights from 1 to 4.5 inches, no tools required. Self-adjusting, spring-loaded idler pulleys save time, effort and repair costs by keeping belts in perfect adjustments. New control levers increase productivity and comfort, with less hand-grip reach and lighter spring tension. Patent-pending Adjust-A-Trac feature allows instant, no-toll neutral and tracking adjustment. Comes with 36-inch deck and 15-hp Kohler engine, or 48incher with 17-hp Kawasaki.

Circle No. 264

# SNAPPER 888/SNAPPER www.snapper.com

Field-serviceable spindle assemblies make it possible to rebuild the spindle assembly on the ProHydro SPLH140KWE with standard tools while it is still mounted to the mowing machine. This innovation from Snapper, McDonough, GA, keeps mowers going during the busiest months. Full-float deck with easy cut adjustment and 7-gauge steel deck is standard; 36-, 48-, 52- and 61-inch widths are available. Independent left/right crank height-of-cut adjustment with built-in height gauge makes mowing simple. Attachments include Ninja mulching system, hard plastic or cloth grass catcher, sulky and snow removal kits.

Circle No. 265

# **SWISHER MOWER** 800/222-8183

### www.swisherinc.com

Three models of perfectly balanced mowers - with 19-, 20- and 22-inch cutting widths - are available from Swisher Mower & Machine, Warrensburg, MO. All feature rugged cast aluminum decks, made of recycled/recyclable material, that will not rust out like steel decks. Each comes with a 3.75-hp Briggs and Stratton engine with safety control system that stops the blade as soon as the handle is released. The 19-inch version has a 6inch front and 8-inch real wheel incremental height adjustment. The 20-inch model has 7-inch front and 8-inch rear quick incremental adjustment. A mulching attachment is available only for the 20-inch model.

Circle No. 266

# **TEXTRON TURF CARE** 414/637-6711

The Bob-Cat® Variable Speed midsize mower is designed to deliver a top-quality cut and reliable performance. It has a variable speed pulley drive transmission. There are two engine choices: a 14-hp Kawasaki or a 15-hp Kohler; and five cutting deck options: 32, 36, 48, 54 and 61 inches.

Circle No. 267

# THE TORO COMPANY 612/888-8801

## www.toro.com

First available from Toro, Bloomington, MN, in February, the ProLine 21-inch heavy duty mower line now includes a Kawasaki full pressure lube engine. The 5.5-hp, 4-cycle OHV engine also has a larger, more durable 25 mm diameter crankshaft custom built for Toro.

Existing Suzuki 2cycle and Briggs & Stratton 4-cycle engines also are available. Three models are offered: the zone start hand push 22170, zone start self-propelled

22171 and the BBC self-propelled 22172. The BBC (blade brake clutch) model stops the blade from spinning yet allows the engine to remain running once the bail is released. Units are CARB and EPA certified and include a 2-year engine warranty.

Circle No. 268

# TRU-CUT, INC. 323/258-4135

The commercial line of mowers from Tru-Cut, Los Angeles, CA, includes the C2150HQ Commercial Pro which comes with standard, large-capacity commercial fabric grass catcher and has an optional steel catcher. Powered by either a 5or 5.5-hp Honda overhead valve motor, or a Briggs & Stratton 5-hp, it features 8-inch front wheels, 10inch real dual ball bearing wheels with zerk fillings. The 5-speed transmission allows speeds from 1.1 to 4.3 mph. Unit has eight cutting heights from 3/8 to 3 5/8 inches.

Circle No. 269

# YAZOO/KEES 800/723-9496 www.yazookees.com

The high-wheel mower from Yazoo/Kees, Jackson, MS, provides a quality cut in the toughest of conditions. Available with a 22-, 24- or 26-inch cutting deck, it is made of 11-guage steel for durability. Either a 6-hp or 8.5-hp Briggs & Stratton engine, mounted between the drive wheels, provides balanced weight distribution for positive traction and increased maneuverability. Large-diameter pneumatic drive tires are mounted on chrome bicycle-style extra-strength steel spoke rims. Knobby tread drive tires flex and clean themselves as you mow.

Circle No. 270

www.landscapegroup.com for online LM Reports, with direct links to manufacturers and their products.

# Controlling Corabograss in cool-season turf

Crabgrass is the dominant weed in cool-season turf. If you can't eradicate it, at least learn how to master this persistent pest.

By ZAC REICHER, Ph.D.

hether you manage lawns or sports
turf, crabgrass is a major weed concern.
It germinates in the spring; thrives during the heat of summer forming tillers
and growing to a foot or more in diameter; sets seed in the late summer and dies
with fall's cool temperatures. It's a prolific
seed producer, with a single plant producing thousands of seeds in one season. Because of this, crabgrass
can never be eradicated from a turf site and can only
be managed to minimize populations.

# **Baby your turf**

Crabgrass control begins with good cultural practices. Thicker and healthier turf is more competitive with crabgrass and results in less crabgrass infestation. The easiest method to control crabgrass is mowing often and mowing on the upper edge of the preferred range of mowing heights. For instance, mowing Kentucky bluegrass lawns at three inches will limit crabgrass pressure, regardless if herbicides are used. However, all of the herbicides in the world will not

prevent a crabgrass infestation on a Kentucky bluegrass lawn mowed at one inch.

Irrigating deep and infrequently also favors turf. As an annual, crabgrass forms shallow roots that compete



Post-emergence herbicides are most effective on young crabgrass that has not tillered.

# flexible enough...

... to gather the best quality and technology available.

... to respond to future market opportunities.

... to deliver genuine value to the turf manager.





"you have our name on it"

That's why you can trust the performance and quality of UHS Signature Brand Fertilizers.™

No one is as strategically positioned and has the strength to look after the turf manager's best interests.

United Horticultural Supply has earned a leadership role in discovering and delivering the best quality and technology available on the market.

Competitors tied to limited resources or technologies cannot make that statement.

Contact your local UHS representative for more information.

www.uhsonline.com • 800-847-6417

UHS Signature Brand Fertilizers are a product of United Horticultural Supply

# While our company is national, our focus is local.

United Horticultural Supply is your source for professionals who have the technical expertise and can provide all the products you need to be a success in today's competitive market.

- Fertilizers
- Herbicides
- Fungicides
- Insecticides
- Turf Seed
- Soil Amendments
- Adjuvants

- Equipment
- Colorants
- Aquatic Products

2-25 GALLON

- Micronutrients
- Wetting Agents
- Plant Growth Regulators



United

United Horticultural Supply

Working To Enhance Our World

Call today for a free product guide containing a comprehensive listing of available items.



Circle No. 115 on Reader Inquiry Card

**Atlantic Division** 

410-548-2200

**Great Lakes Division** 

517-333-8788

**Gulf States Division** 

1-800-457-0415

**Midwest Division** 

402-330-1910

**Pacific Division** 

1-800-637-0422

Southern Division

409-731-1017

**Western Division** 

209-253-5700

for water in the soil profile. Turf is deeper rooted than crabgrass. If you keep the turf on the dry side and water only to prevent water stress, you will give the desirable grasses an advantage over crabgrass.

Proper fertilization encourages turf density and further minimizes crabgrass infestation. The majority of the annual fertilizer should be applied to cool-season turf in the fall. Make two applications in the fall, one in September and one after the turf has ceased growing. The first application will encourage recovery from summer stress through lateral growth and increased tillering. Include some slow-release fertilizer to feed the plant over the following four to six weeks.

Apply the late-fall application after growth has slowed but while the plant is green and actively photosynthesizing. This may be mid- to late-October in the northern states or mid- to late-November in the southern states with cool-season grasses. The fertilizer should be a source that is quickly available, such as urea. It's important for the nitrogen to be taken up by the plant before winter. This late-fall application maintains deeper green color well into fall, speeds spring green-up and improves spring density.

Other building blocks in a turfgrass program include traffic management and aerification to minimize compaction, increasing drainage and airflow to keep turf as dry as possible and minimizing damage from insects and diseases to prevent a thin turf prone to crabgrass infestation. However, even with our best intentions to maintain a thick turf stand, some areas are still prone to crabgrass infestation and we must use herbicides.

# Pre-emergence herbicides

It is important to apply pre-emergence herbicides accurately and evenly across a turf site. Since pre-emergence herbicides are immobile in the soil, a uniform application ensures that the germinating crabgrass plants will come into contact with the herbicide. Using a pre-emergence herbicide on a large fertilizer granule might make applications easier, but it may not provide a dense enough pattern to ensure consistent application.

Some labels state that the product should be applied two weeks prior to the expected germination period for crabgrass (who can

guess the exact germination period for crabgrass each spring?). Some say to apply pre-emergence herbicide when minimum soil temperatures reach 50°F for five consecutive days. However, soil temperatures in West Lafayette, IN, often reach 50°F during early March, only to fall back into the 40s for many more weeks. Others will say to apply pre-emergence herbicides when forsythia is in bloom. Again, it is very common to see the forsythia blooming just before the last March snowstorm.

Timing of pre-emergence herbicides was more important years ago when the herbicides did not have the duration of control like today's products.

Today's pre-emergence herbicides, applied in March, will provide season-long crabgrass control. In fact, our research has shown that November and December applications of pre-emergence herbicides will provide season-long control on most turf areas when used at the high recommended rate.

On areas with extremely high crabgrass pressure, a December application should be followed by a sequential application in the early summer to ensure control, or possibly a spot treatment with a post-emergence herbicide, if needed.



Crabgrass is the most common weed on commercial properties, home lawns, sports turf and most other turf settings.

Late fall and early spring applications work to control crabgrass because microbial degradation is the main factor in breakdown of pre-emergence herbicides. Soil microbes become more active once soil temperatures reach 55°F. Since soil temperatures are at or near 32°F throughout the winter, minimal degradation of herbicide occurs until the soil temperatures warm up in April.

## Sequential applications

If you manage areas with extremely high crabgrass pressure or with the possibility of goosegrass, you might consider a sequential application of pre-emergence herbicides. An application in late fall or early spring will provide acceptable control into early summer, but a second application will boost the activity of the herbicide in the soil to extend control throughout the growing season.

Most labels will recommend 2/3 to 3/4 of the high label rate in the first application, followed by a second application of 1/3 to 1/4 of the total label rate in late May cont. on next page

# WEED CONTROL GUIDE

cont. from previous page

or early June. Use the same active ingredient in the sequential application as you applied in the first application.

Research at Purdue suggests that using sequential applications of an active ingredient different than the initial application provides less effective control. It appears that concentrations of different herbicides are not additive in the soil. Instead of boosting the concentration of the initial herbicide in the soil with a second application, you merely add a second herbicide at a concentration that may not give seasonlong control.

This strategy is important when you are trying to reduce the rate of herbicide used in both the initial and sequential application. As you may suspect, it may not be as important if you are willing to use high

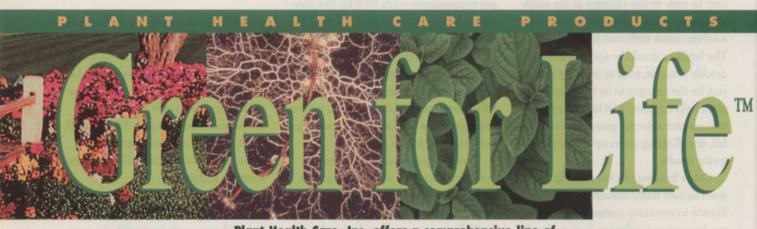
# One Tough Crabgrass

- One crabgrass plant can produce 10,000 seeds per year
- 12% germination produces 1200 seedlings
- 10% survival of seedlings leaves 120 crabgrass plants
- Assuming commercially acceptable 90% crabgrass control, 12 plants survive until seed set when the cycle begins all over

label rates for different herbicides in both the initial and sequential applications, thus creating effective concentrations for each herbicide in the soil.

Post-emergence herbicides, such as MSMA (under a variety of trade names). Acclaim, Dimension and the newly released Drive, offer increased flexibility in a weed control system. Some professionals have opted not to use the traditional preemergence herbicide application, preferring a wait-and-see approach. If the summer weather is conducive to crabgrass, and/or regular scouting reveals newly emerging crabgrass, a post-emergence herbicide can be used in early- to mid-summer. This is useful on areas that traditionally have lower crabgrass pressure. During mild summers not conducive to crabgrass, this can reduce expenses and pesticide use.

Post-emergence herbicides are most effective on small crabgrass. The smaller the crabgrass plant, the lower the rate of herbicide necessary to be effective. Since post-



Plant Health Care, Inc. offers a comprehensive line of mycorrhizal fungal inoculants, biostimulants, biopesticides, biofertilizers and water management products, specifically formulated to help maintain optimal growth and quality.

AL INOCUL



# Mycor" Palm Saver" Inoculant 6-3-6 + Micros A palm fertilizer and organic soil

conditioner with beneficial mycorrhizal fungi and Nitrogen fixing/Phosphorus solubilizing bacteria to improve absorbing root growth and survival of palms and related species. Used at planting or as a vertimulch.



# Mycor" Tree Saver **Transplant** Inoculant Spores of

ectomycorrhizal fungi mixed with Terra-Sorb™ planting gel, yucca extract, seakelp, and humate soil conditioners. Used to eliminate rework when planting landscape trees and shrubs.



# Mycor" **Plant Saver** 4-7-4 **Planting** Inoculant

Combines

Healthy Start™ Biofertilizer with endo- and ectomycorrhizal fungi, beneficial bacteria, biostimulants and humic acid to create ideal growing conditions when planting containerized perennials, shrubs, vines and small trees.



# **Healthy Start™** 3-4-3 Biofertilizer

A totally natural fertility system for new flower and sod

installation. Healthy Start™ contains NPK and a range of micronutrients derived from organic plant and animal proteins, combined with humic acids to recondition poor soils, and Nitrogen fixing and Phosphorus solubilizing bacteria.

emergence herbicides can be phytotoxic to turfgrass, the lower rates will also improve the safety margin. Accurate applications are essential to minimize possible phytotoxicity to the turfgrass.

If you apply post-emergence herbicides early in the summer, include a pre-emergence herbicide in the tank mix to control the later germinating crabgrass. Since Dimension has both pre- and post-emergence properties, it can be used alone to control young crabgrass that has not tillered and that has not yet germinated. Drive actually appears to control tillered crabgrass as well, if not better than younger crabgrass. Drive also is active on clover and a number of broadleaf weeds and appears to be one of the safer post-emergence herbicides on newly emerged seedlings.

Though post-emergence herbicides are



effective in controlling crabgrass, don't attempt to control crabgrass in late summer because the plants are too large and vigorous. Attempting to control crabgrass at this time will only result in disappointing conPre-emergence herbicide applications have been timed in the past to coincide with forsythia bloom.

trol and possibly turf damage. Wait for the most effective, safest and cheapest control of crabgrass — the first frost.

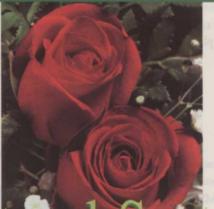
By maintaining a dense, healthy stand of turf, you can limit the amount of crabgrass. This starts with the cornerstones of turf management: proper mowing, irrigation and fertilization. Maximizing these three cultural practices can almost eliminate crabgrass from many turf stands.

—Zac Reicher is Assistant Professor of Agronomy and the Turfgrass Extension Specialist at

Purdue University, West Lafayette, IN

# FOR THE LIFE OF YOUR PLANTS

lants already know how to grow. Our job as horticulture professionals is to create those conditions that best enable natural growth mechanisms to perform as desired.



# Call Now and Receive a FREE Sample of PHC™ BioPak™ Plus



All PHC Products are available from your local distributor

1-800-421-9051

www.piantneaitncare.com

Not valid with any other offers. Green for Life", Yuocah", PHC", Mycon'Tree", Mycon', BioPaix', Terra-Sorb', Palm Save BioPain', Terra-Pain', A Natural Systems Approach', Tree Saver'', Healthy Start' and PlantSaver' are trademarks of PHC Posylot (Oct.) 61999

# A Natural Systems Approach



# PHC™ BioPak™ Biostimulant

A dry, water soluble biostimulant with beneficial bacteria for promoting root growth, branching and flowering of container, ornamental and bareroot plants. Contains spores of Nitrogen fixing, Phosphorus

solubilizing and growth promoting bacteria, together with yucca, seakelp, humic extracts, amino acids and vitamins.

# New! PHC™ BioPak™ Plus Biostimulant

PHC™ BioPak™ Plus is a premium water soluble blend of beneficial rhizosphere bacteria, chelated micronutrients, organic biostimulants and yucca plant extract wetting agent. BioPak™ Plus improves the nutritional health, color and vigor of stressed plants and turfgrasses.



# Yuccah™ Natural Wetting Agent

A natural based soil wetting agent and microbial stimulant for turf growing in dry,

compacted and hard-to-wet soils. Yuccah™ is derived from Yucca schidigera plant extract.

# Terra-Sorb™ Hydrogel Products

PHC" is the sole manufacturer of Terra-Sorb" products. Terra-Sorb" hydrogel is used on sod, new grass seed, potted plants and flower beds to improve water retention.

Circle 117

# TerraPam™ Tackifier



A polyacrylamide tackifier used to ensure effective hydroseeding by binding together the various components of the hydromulch, which improves water penetration and retention, and maintains a cool soil temperature. This results in optimum germination and soil stability. Also an effective binder on dirt roads, reducing erosion and dust problems.

# BioPam™ Tackifier and Inoculant



A tackifier/biostimulant used to ensure effective hydroseeding by binding together the various components of hydromulch while improving seed establishment. Also contains BioPak<sup>™</sup>, a dry soluble biostimulant with Nitrogen fixing Phosphorus solubilizing and growth promoting bacteria.

60M99L2

# The South's Ornery new Jees S

Use the latest control strategies for the newest, nastiest weeds in warm-season turfgrass.

By BERT McCARTY, Ph.D.

urf managers have seen an increase in "new" weeds in the last 5 to 10 years. Previous tough-to-control weeds such as crabgrass, goosegrass, chickweed and henbit caused many turf managers to lose their jobs. Today, however, many of these weeds have adequate control measures, but new weeds have taken their place. Possible explanations for this shift include:

▶ Significant increase in the use of pre-emergence herbicides, especially on fertilizer carriers, which do an excellent job on most grass weeds, but allow other weeds to escape and thrive.

➤ Significant reduction in the use of traditional post-emergence herbicides which provided adequate control of most weeds, such as MSMA, DSMA and 2,4-D, which provided good general weed control at reasonable prices.

▶ Overwatering, which favors certain weeds such as sedges and annual bluegrass, giving these weeds the advantage over the turf.

# **Up-and-coming** weeds

Post-emergence herbicide control options are listed. You, however, must decide if these herbicides can be safely applied to the particular turfgrass species in your area.

Spreading dayflower (Commelina diffusa)

➤ Summer annual with fleshy, smooth stems; flowers with three blue petals; reproduces by seed and stem fragments; prefers moist habitats

Occurs from Massachusetts, Missouri, Indiana, south into Florida and west to Texas, Kansas and Oklahoma.

Products containing atrazine or simazine applied twice 30 days apart. Prompt (a pre-mix of atrazine and Basagran) also works well. Tank mixes of MSMA or

DSMA with Sencor or multiple

Spreading dayflower

application of two- or three-way broadleaf herbicide mixtures also provide good control but can cause phytotoxicity to certain turfgrass species.

# Doveweed (Murdannia nudiflora)

- Summer annual with fleshy, creeping stems rooting at nodes; alternate leaves; small, inconspicuous blue to purple flowers; reproduces by seed
- ▶ Occurs from North Carolina south through Florida, west into Texas
- ► Control the same as spreading dayflower

  Torpedograss (Panicum repens)
- ▶ Perennial grass; robust, sharply pointed, creeping rhizomes; reproduces primarily by rhizomes
- ▶ Occurs along the North Carolina coasts on golf courses south throughout Florida west into



**Torpedograss** 

Texas

Nonselective control is with at least 3 applications of glyphosate (Roundup Pro) spaced 3 weeks apart. Other nonselective control involves fumigating with methyl bromide and replanting. Selective con-

trol (or suppression) has recently become available with quinclorac (Drive). Drive should be applied 2 or 3 times spaced 3 to 4 weeks apart. Expect some minor temporary turfgrass discoloration.

# Smutgrass (Sporobolus indicus)

- ► Clumping perennial grass; leaf blades flat, very thin; seed often infected with black fungus (or smut); reproduces by seed
- Ccurs from Virginia into Florida, west to Texas, inland to Oklahoma and Missouri
- ▶ Selective control has been very elusive. Summer atrazine or simazine applications provide about 50% control, but expect temporary turfgrass damage. TFC lists smutgrass, but control is often very erratic with this product. Nonselective control is spot spraying or rope wicking glyphosate (Roundup). If rope wicking, treat in two directions.

# Mat lippia or matchweed (Phyla nodiflora)

▶ Mat-forming perennial broadleaf plant with prostrate growing, hairy stems; stems rooting at nodes; leaves opposite with large teeth towards the tip; flowers rose-purple or white, in a head at tip of



Smut fungi on smutgrass seedhead.

a long stalk, resembling a match head; reproduces by seed and stolons

- ▶ Prefers sandy coastal plains and occurs from Pennsylvania to Florida, Arkansas, Oklahoma, Texas, California and Hawaii
- ▶ Products containing atrazine or simazine applied twice 30 days apart. Prompt (a pre-mix of atrazine and Basagran) also works well. Products containing two- or three-way broadleaf herbicide mixtures applied at least twice 7 days apart also work in tolerant turfgrasses.

# Annual blueeyed-grass (Sisyrinchium rosulatum)

- ▶ Winter annual, member of the Iris family; appears similar to goosegrass except it is a cool-season annual; leaves flat, light green, all clustered at the base; has zigzag-shaped stems; flowers pale purple to white with a rose-purple eye ring; reproduces by seed
- Occurs from North Carolina south into Florida and west to Texas and Arkansas.
- ▶ Products containing atrazine or simazine applied twice 30 days apart. Prompt (a pre-mix of atrazine and Basagran) also works well. Sencor also provides excellent control in tolerant turfgrasses. Products containing two- or three-way broadleaf herbicide mixtures applied at least twice 7 days apart also work.

# Chamberbitter (Niruri, Gripeweed) (Phyllanthus urinaria)

➤ Small, erect summer annual broadleaf weed, escaped from ornamental industry; leaves oblong, arranged in two rows; flowers inconspicuous (not showy); fruit green, warty, without a stalk, attached

cont. on page 62

PREVE GR 35. OPTHEM



Now you can control grubs preventatively or curatively. With a single application. Only with new MACH 2™ Turf Insecticide.

MACH 2 is a powerful killer with a new chemistry that accelerates the molting process of target insects.

Just hours after ingesting MACH 2, the insect stops feeding. Then it dies beneath the surface in 2 to 3 weeks. It's that simple.

With MACH 2<sup>™</sup> Turf Insecticide, you'll kill target enemy insects all season long. Grubs. Cutworms. Armyworms. Sod webworms. Plus, odorless MACH 2<sup>™</sup> is easy to apply.

You don't even have to water it in immediately.

So don't let grubs control your grounds, or your schedule. Depend on MACH 2™ Turf Insecticide. It's all you need to prevent *or* cure.

For more information or for the distributor nearest you, call 1-888-764-6432 and visit our website at www.mach-2.com.



ALL YOU NEED TO PREVENT OR CURE.

Circle No. 141 on Reader Inquiry Card

# WEED CONTROL GUIDE

cont. from page 59



Chamberbitter

directly to underside of branch; reproduces by seed

- Occurs in the southeastern United States west to Texas
- Control products the same as matchweed. Treat when plants are small.

# Thin or bull paspalum (Paspalum setaceum)

- ▶ Clump-forming perennial grass; leaf blades flat, hairy to almost smooth with a fringe of stiff hairs along the leaf margins; common in sandy soils; reproduces by seed and clump fragments
- ▶ Occurs throughout the coastal plains from Long Island to Florida, west to New Mexico and Colorado, north through Nebraska, Ohio and Tennessee
- Repeat applications of MSMA or DSMA are required every 7 days until complete control is achieved.

# Lawn burweed or spurweed (Soliva pterosperma)

- ▶ Low-growing, freely branched winter annual broadleaf weed; leaves opposite, twice divided into narrow segments or lobes; flowers small and inconspicuous; fruits have sharp spines; reproduces by seed
- Occurs in most southern states from North Carolina to Florida, west to Texas
- ▶ Pre-emergence or post-emergence applications of simazine or atrazine provide

excellent control. Prompt and Sencor also work well in tolerant turfgrasses. Repeat applications of two- or three-way broadleaf herbicide mixtures also provide control. Key to control is applications in fall when weeds are small.

# Annual or water sedge (Cyperus compressus)

- ➤ Summer annual sedge; seedhead is a cluster of flat greenish, glossy spikes at the top of bare stems; tolerates close mowing heights; reproduces by seed
- ► Occurs from Minnesota, Ohio and New York, south through Florida and west to Texas
- ➤ Basagran, Image, Manage all provide good control.



Annual sedge

Repeat applications of MSMA or DSMA also work.

**Annual bluegrass**, perennial biotype (*Poa annua* var. *reptans*)

▶ Similar to annual biotypes except the perennial biotypes produce less seedheads, often produce short stolons and form larger patches compared to annual biotypes; perennial biotypes occur from the transition zone northward where bentgrass is

grown year-round as greens; triazine (atrazine/simazine) tolerant biotype occur

▶ In bentgrass greens, selective control is very erratic. Growth regulators such as paclobutrazol (Scotts Turf Enhancer) applied twice in fall 30 days apart followed by 2 or 3 applications in spring allows bentgrass to eventually out-compete the Poa. Several years of this program may be necessary and the treated Poa takes on a characteristic yellow-green appearance following application.

# Kyllinga (Kyllinga spp.)

- ▶ Perennials: perennial or green kyllinga (*K. brevifolia*); *K. gracillima* = *K. brevifolioides* (no common name); white kyllinga (*K. nemoralis*)
- Annuals: annual kyllinga, *K. odorata* = *C. sesquiflorus* (acts as an annual in United States but is a short-lived perennial in the tropics); *K. pumila* and *K. squamulata* (no common names)
  - ► Appear similar to nutsedges except

kyllinga does not form underground nutlets; perennial kyllinga species form weed patches from stolons.



Annual kyllinga

► Most kyllinga species

occur from Delaware and Rhode Island south through the Carolina into Florida, west to Texas, California and in Hawaii. Currently, white kyllinga is thought to be restricted in the United States to Hawaii, however, it probably can survive in portions of the mainland including southern California and south Florida.

Annual kyllinga species can be controlled with Basagran, Image, Manage or repeat applications of MSMA or DSMA.

Perennial species require repeat applications of Image, Image + MSMA or Manage.

Bert McCarty is Associate Professor of Turf at Clemson University, Clemson, SC "Success in the professional lawncare industry is based on emphasizing quality service, good programs and products for each and every customer." So says Gary LaScalea, president and owner of GroGreen Lawn, Tree and Shrub Care, which services accounts around the Dallas/Ft.Worth metroplex.

Apparently his philosophy works—GroGreen has expanded an annual 30 to 40 percent since opening its doors just four years ago. Last season, the company generated more than \$1 million in revenue, and it's still growing.

LaScalea, who formerly worked in various positions for ChemLawn, learned early that emphasizing employee

# PENDULUM Helps GroGreen Grow Profits and Customer Base



relations and on-going training creates pleasant, knowledgeable service personnel. That attribute pays off in high customer satisfaction and cancellation rates of less than 10 percent each season.

Employee perks at GroGreen include aboveaverage salaries, benefits and year-end bonuses. LaScalea also provides employees with comfortable working conditions, such as air-conditioned trucks and properly operating equipment.

The lawncare veteran maintains that keeping his service technicians satisfied increases their enthusiasm in dealing with the occasional customer complaint.

"We expect quality service from our technicians, which includes taking care of any problems in an expedient and professional manner. Our front-line personnel are trained in customer relations as well as product information and application. They are also given the authority to drop everything and make complaint resolution a priority rather than the last task on their list."

LaScalea also believes in supporting his technicians with powerful products and programs including PENDULUM® (pendimethalin) herbicide from American Cyanamid Company. "We can't take the chance of opening ourselves to problems in our preemergent weed control, so we only use proven performers. We rely on PENDULUM as the foundation of our preemergent herbicide program, especially in our residential market which represents 60 percent of our business. I've

Advertorial

depended on this chemistry throughout my career and it has always provided consistent, broadspectrum control of most annual weeds and grasses. The fact that it can be used across a variety of markets and accounts increases its advantages, LaScalea says.

He points out that although some lawncare professionals turn to cheaper substitutes, the power he receives from PENDULUM makes the program cost-effective. "Look what you get for your money in terms of results and time and costs saved on reduced callbacks. PENDULUM herbicide also goes a long way in keeping customer satisfaction high. I'm sure we'd lose clients without it."

# He adds that taking advantage of corporate rebates such as the GREEN CONNECTION

PROGRAM™ helps increase the cost-effectiveness of his preemergent herbicide offering. "There are so many different purchase programs out there that you have to watch your options every year," he says. "But, by selecting highly-effective products that also offer cash incentives that meet your needs, you'll get the biggest bang for your buck and keep both your customers, and your bottom line, satisfied."

# Get Cash Back with the GREEN CONNECTION PROGRAM

Turf managers know that it's hard to beat the cost-effective weed control of PENDULUM and other pendimethalin herbicides. The number one preemergent product on the market, pendimethalin provides season-long, broadspectrum control of most annual grasses and broadleaf weeds while exhibiting excellent turf tolerance to warmand cool-season grasses. Green professionals throughout the country have yet another incentive to use these proven performers—cash rebates from the GREEN CONNECTION™ PROGRAM.

The program covers all pendimethalin products from American Cyanamid, LESCO and The Scotts Company. To qualify, turf managers must simply purchase and take delivery of the product between December 19,



1998 and June 14, 1999 and return their GREEN CONNECTION rebate form with a copy of the invoice postmarked no later than June 14, 1999.

Contact your American Cyanamid distributor for more information. Or contact Cyanamid directly at 1–800–545–9525, ext. T2310, or on the Internet at www.turffacts.com.

# Ornamental Weeds Johnson Day of the State o

David Letterman's top 10 list is popular, but this group of pesky landscape weeds has more staying power.

BY JEFFREY F. DERR, Ph.D.

f you focus on the 10 weeds that represent the major weed groups infesting our land-scapes, you will have a good base of information on the subject. Each weed life cycle group, with the exception of biennial weeds, is represented by at least one member.

I have listed possible chemical control options for these weeds. While there are nonchemical methods for control, that is a topic for another article. You can integrate chemical and cultural con-

You will deal with more than the 10 weeds listed here, but remember that control strategies for other weeds in that group may be quite similar to those listed. For example, yellow foxtail is in the summer annual grass category, just like large crabgrass. Chemical control options are essentially identical for these two weeds. In other cases, control strategies may be different for closely related weed species. Herbicide recommendations differ for yellow nutsedge compared to purple nutsedge, although both are perennial sedges. Check herbicide labels

and other sources of information for control of weeds not listed in this article.

## **Summer annuals**

Large crabgrass is a troublesome weed in many situations, including landscape beds. It begins to germinate in spring when soil temperatures have risen above 50° to 55°F. It can germinate throughout the spring and summer, making it difficult to achieve season-long control with a single herbicide application. Split applications of pre-emergence herbicides, spaced 2 to 3 months apart, are often used for long-term control.

The best way to control crabgrass is through preemergence herbicide application. Products available for pre-emergence crabgrass control include Pendulum, Surflan, Barricade, Treflan/Preen, Ronstar, Devrinol and Dimension. All can be used on woody ornamentals but only certain ones can be used on annual and perennial flowers. Consider using a granular formulation for enhanced crop safety, especially for herbaceous ornamentals. Although certain preemergence broadleaf herbicides will suppress crab-

trol in an IPM program.

grass, they generally do not provide the level of control seen with the crabgrass preventers.

Crabgrass can be controlled selectively postemergence using the post-emergence grass herbicides Acclaim, Envoy, Fusilade/Ornamec or Vantage. Since these products have little soil residual, a pre-emergence herbicide should be applied to extend the length of control. Treat prior to tillering of crabgrass for optimum results.

Prostrate spurge (spotted spurge) is a low-growing summer annual broadleaf that germinates during the warm months of late spring and summer. Certain crabgrass preventers such as Pendulum or Surflan are fairly effective on this weed. The combination products on the market, such as Rout, OH2 and Snapshot, provide good control in woody ornamental species. It is difficult obtaining long-term control of spurge since no herbicide provides excellent control of this weed for more than about 2 months. As with crabgrass, split applications can provide longer control. Prostrate spurge is difficult to control post-



**Spotted Spurge** 

emergence. Use careful applications of nonselective herbicides such as Roundup Pro, Finale or Reward.

I generally place common groundsel in the summer annual broadleaf category, although it overlaps the

winter annual category as well. It can tolerate mild frost and survive through a mild winter. Most crabgrass preventers provide poor control of this weed and it is, therefore, quite difficult to control in herbaceous plantings.

Products that contain oxyfluorfen, such as the granular materials Rout or Regal O-O, or the liquid formulation Goal, provide excellent control of groundsel. Goal is mainly used on conifers since it will damage foliage of most other ornamental species. The granular formulations are a better choice in landscapes containing a variety of woody species. Other herbicides, such as Gallery, Snapshot, Ronstar and Princep, (if triazine sensitive) will control groundsel. For post-emergence control, use Goal where possible, primarily in dormant conifers

# **Annuals**

Live <1 year

Reproduce by seed

# Summer annuals:

Germinate in spring

flowers produce seed in late summer/early fall die in fall.

# Winter annuals:

Germinate fall through late winter, flowers produce seed in spring,

die in late spring/early summe

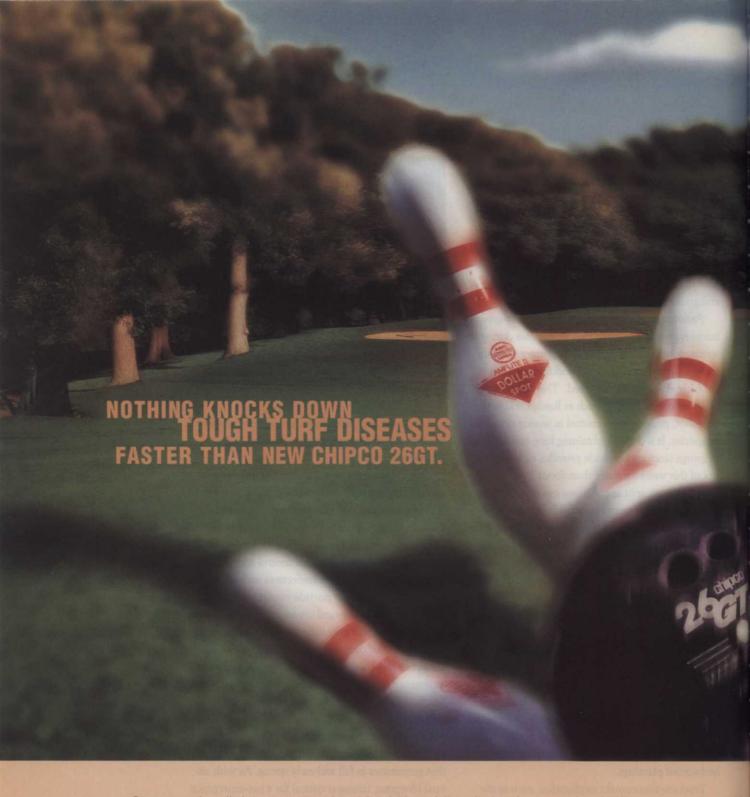
and dormant deciduous trees. Otherwise use careful applications of a nonselective herbicide.

# Winter annuals

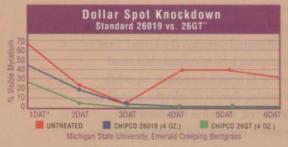
Annual bluegrass germinates in fall and early spring. The best way to control it is through application of a crabgrass preventer in August, prior to the initiation of germination. Annual bluegrass tolerates most post-emergence grass herbicides. Envoy is the only one in this group that will control annual bluegrass. Alternatively, the nonselectives such as Roundup Pro or Finale provide excellent control. Kerb will control emerged winter annuals like annual bluegrass in certain established woody ornamentals, along with providing residual control. Barrier/Casoron can also be used for pre-emergence and postemergence control of a range of winter annual weeds (it can only be used on established woody ornamentals). Kerb and Barrier/Casoron work best when applied under cold conditions in late fall or winter.

Common chickweed is a winter annual broadleaf that germinates in fall and early spring. As with annual bluegrass, timing is critical for a pre-emergence application. Late August would be a good time to treat in most areas. Essentially all pre-emergence herbicide used in ornamentals, with Ronstar a major exception, will control common chickweed. I am often asked in spring how to control chickweed post-emergence. In most ornamentals, especially herbaceous species, there is no selective control of emerged chickweed, as well as other emerged broadleaf weeds. Common chickweed is best con-

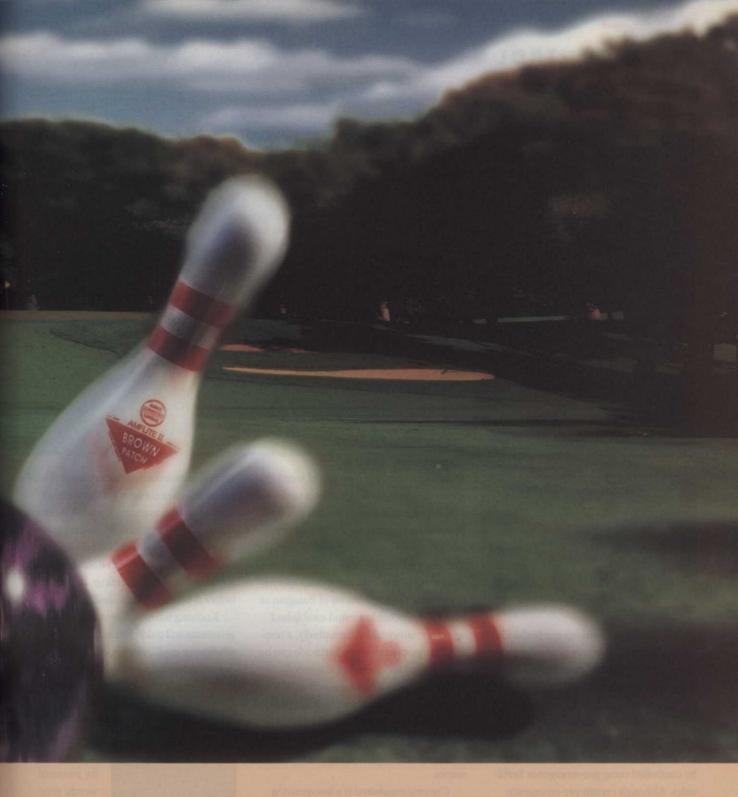
cont. on page 68



For years, you've relied on CHIPCO® 26019 brand fungicide to deliver the best brown patch and dollar spot control available



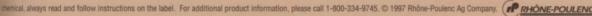
But, sometimes, when soaring summer temperatures made you feel the heat, you've turned to contact materials to give you the quick disease knockdown you need. Now, you can get the same powerful, long-lasting disease control you've come to expect from CHIPCO® 26019, plus the quick knockdown you demand. Introducing new CHIPCO® 26GT. \* University trials prove that new CHIPCO® 26GT provides consistently quicker knockdown of dollar spot and brown



patch than the standard CHIPCO® 26019 . In fact, CHIPCO® 26GT" was as much as 48 hours faster. That means you'll see activity against disease mycelium within just 24 hours after application. And that means faster turf recovery. You can also count on CHIPCO® 26GT® to give you both preventative and curative activity against dollar spot and

Brown	Brown Patch Knockdown Chipco 26GT				
Sould live	ODAY*	1DAT	2DAT		
UNTREATED	PRESENT	PRESENT	PRESENT		
CHIPCO"26GT"	PRESENT	NONE	NONE		

brown patch. . Best of all, new CHIPCO 26GT gives you the same powerful, broad-spectrum, long-lasting disease control you've come to expect from CHIPCO® 26019. Now you don't have to sacrifice quality and duration for quickness. You get them all with new CHIPCO® 26GT".



# WEED CONTROL GUIDE

cont. from page 65

# GENERAL GUIDELINES FOR SELECTIVE PRE-EMERGENCE AND POST-EMERGENCE CONTROL IN HERBACEOUS AND WOODY ORNAMENTALS.

	Herbaceous ornam	entals	Woody ornamentals	S
	Selective Pre-emergence control	Selective post-emergence control	Selective pre-emergence control	Selective post-emergence control
Large crabgrass	Yes	Yes	Yes	Yes
Prostrate spurge	Yes	No	Yes	No
Common groundsel	Yes	No	Yes	Limited options
Annual bluegrass	Yes	Yes	Yes	Yes
Common chickweed	Yes	No	Yes	Limited options
Bermudagrass	No	Yes	No	Yes
Yellow nutsedge	Yes	No	Yes	Yes
Wild garlic	No	No	No	No
Creeping woodsorrel	Yes (from seed)	No	Yes (from seed)	No
Mugwort	No	No	Yes	No



Common chickweed

trolled through pre-emergence herbicide application. Nonselective post-emergence herbicides will control emerged chickweed.

### Perennial weeds

Post-emergence herbicides are generally used to control perennial weeds, with a few exceptions. Bermudagrass is an example of a perennial weed that often cannot be controlled using pre-emergence herbicides. Although certain pre-emergence herbicides will suppress pegging down of bermudagrass stolons, post-emergence herbicides are required for control. The best option in broadleaf ornamentals are postemergence grass herbicides such as Vantage, Fusilade/Ornamec or Envoy. Repeat treatments will be needed for control. Although these are systemic chemicals, one application may will not completely kill the rhizome system of bermudagrass.

Yellow nutsedge is a perennial weed that grows especially well in wet sites under full sun. An effective way to control this weed in many herbaceous and woody ornamentals is through a pre-emergence application of Pennant. Barrier/Casoron could be used pre-emergence in selected woody species. Directed spray applications of Basagran or Manage are possible around established woody ornamentals. Alternatively, a non-selective post-emergence herbicide can be spot-applied for control of this weed.

Wild garlic is a common perennial weed in landscapes. Unfortunately, most preemergence herbicides have no effect on this weed. Careful applications of Finale or Roundup are the only option in most landscapes.

Creeping woodsorrel is a low-growing perennial with mostly reddish-purple leaves. This plant throws its seed several feet when the seed pods are mature. It is sensitive to the nonselective herbicides Finale and Roundup. Include a pre-emergence broadleaf herbicide to stop re-establishment by seed.

Mugwort (wild chrysanthemum) is one of the most difficult-to-control field nursery weeds and can become a landscape problem through contaminated nursery stock. There are no selective controls for this weed in herbaceous ornamentals. Barrier/Casoron can be applied in winter for control in established woody ornamentals. This weed can be difficult to control with Roundup. Scout for mugwort in new plantings and remove before it becomes established.

Knowing when different weed species germinate will guide you in timing preemergence applications. Grasses and sedges can be controlled selectively in many land-



Mugwort

scape situations post-emergence. You'll need to be diligent, especially for perennial weeds, since few options besides application of a nonse-

lective herbicide exist.

Once we learn how to control this entire list of weeds, a new set of species will probably invade our landscapes. Then it will be time to develop a new top 10 list!

Jeffrey Derr is Associate Professor of Weed Science with Virginia Tech.



## POWERFUL, RELIABLE, QUICK.

We built our new midmount, zero-turn mower to be best-of-class. The Viper combines a gutsy 25-hp Kawasaki engine with twin unitized hydraulic pump motors and oversized tires. So it runs hard and fast, with terrific hill-climbing ability.

The compact, 78" length and midmount deck means it is maneuverable and easily fits on your trailer. Viper's built on a welded, tubular steel frame that makes it as strong as it is durable. And a floating 54" or 60" deck

lets you finish fast and still provide the manicured look customers demand.

LESCO backs its products with technical expertise, 235 LESCO Service Centers®, and a commitment to set the industry standard for professional turf equipment and supplies. So check out the Viper. It'll become the standard by which you judge all others.

Call 1-800-321-5325 for a LESCO Service Center near you.



# Time to add a new service?

Survey current customers and study the receptiveness of potential clients to gauge the likelihood of a new service's profitability in your market.

By ED, TODD & AARON Wandtke

any lawn and landscape company owners are considering expanding their services. This month we look at our make-believe Mixed Mowing & Maintenance Company to show what to consider when you're thinking about expanding your services.

Start by asking yourself:

- \* Should the new service be offered to all of your current customers this year?
- \* Should you test market the new service before offering it to your entire customer base?
- \* Should you buy a franchise for the new service?

## Choose your target market

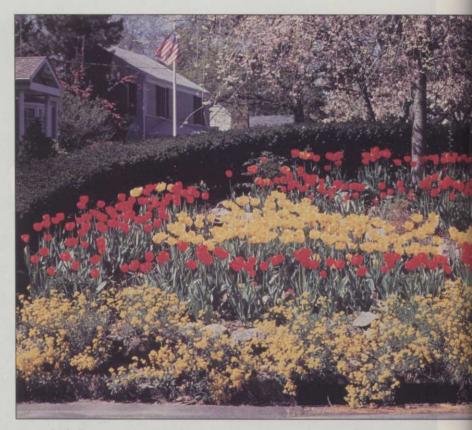
Objectively determine the strength of your company's image. Study the retention pattern for current customers and get their feedback. Then, survey noncustomers in your market.

This will give you insight as to the receptiveness of the market and alert your current customers that you may be planning to offer a new service. Collect this information carefully.

# Don't rush — take it easy

If you're still on track to launch a new service, answer these questions:

\* How willing are you to do a test?



Our make-believe company, Mixed Mowing & Maintenance Co., identified potential clients and gained the support of its current staff before offering its new seasonal color services.

\* Are you excited about doing something new and think a test is unnecessary?

\* Can you limit the new service to a restricted group of current customers?

You'll also have to determine how much financial investment is required, the risk level of your new venture and the availability of qualified people (or the ease of training them). Also consider the impact on your current employees. Many new service offerings fail because current employees are not informed, do not understand the purpose of a new service or feel left out.

When you understand the needs of

your employees, you can count on them to help launch the new service. If you don't involve these employees, you may find yourself with an "us" vs. "them" situation.

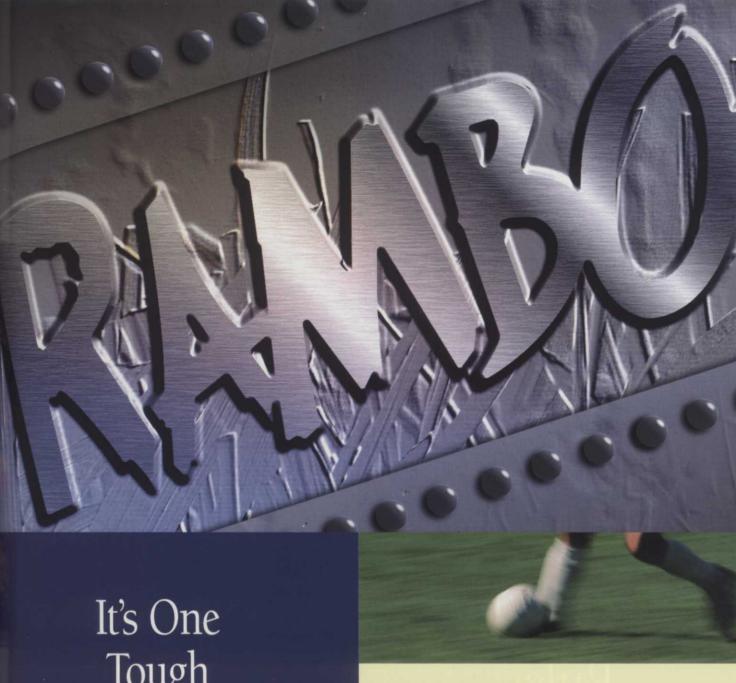
# Should you franchise?

One way to lower your risk is to obtain a franchise in the new service area. Franchisers market a tested system for the purchaser and many of them offer extensive training and backup. Is a franchise for you?

Pros

- \* Established service concept already being marketed in other areas.
  - \* First year's budget and marketing plan

cont. on page 73



Tough Bluegrass.

Cother bluegrass varieties in comparison as Rambo outranked top challengers

in demanding transition-zone tests. While others whimpered and withered, Rambo withstood brown patch, leaf spot and melting out, and was virtually unscathed by necrotic ring spot. As you might expect, Rambo was also among the densest. Thick with fine leaf texture, it stood strong even when mowed down to 1/2 inch. If grass knew fear, Rambo wouldn't. For extreme confidence, put Rambo in your turf today.

Circle No. 145 on Reader Inquiry Card



JACKLIN. Simplot Turf and Horticulture



# Award Rules



#### **High Tolerance At Short Cuts**

No matter how you gauge performance, Award measures up. It handles disease pressure better than other Kentucky bluegrass

varieties in its class, even when cut as short as 1/2 inch.\*
And trial after trial proves that **Award** maintains its intense dark green color under varying management regimes. **Award** has earned its status as an elite variety by raising performance standards to a whole new level.

But, isn't that what you would expect from Jacklin's Five Steps Above™ Program?

JACKLIN S E E D

\*NTEP data available upon request.

WIEF data available upon request.

Phone: 1-800-688-SEED • Fax: 208-773-4846 • www.jacklin.com

©1998 Jacklin Seed • All rights reserved

Circle No. 146 on Reader Inquiry Card

cont. from page 70 readily available.

- \* Ability to talk with other franchisees.
- \* Franchiser provides established marketing and advertising plan.

#### Cons

- \* Franchise has fixed initial investment.
- \* You must follow the rules of the franchise agreement.
- \* The franchise may not offer an exclusive territory.
- \* Financial results must be reported to franchiser and a fee paid based on revenue volume.

#### The risk/time tradeoff

Before making a decision to start a new service, consider how much risk you can accommodate. Risk can be in the form of money, people or concept.

All too often, an owner finds that a new service is requiring more management involvement than initially envisioned. Consider what could happen to the current business if you and your managers are unable to concentrate on the core business while you get the new offering launched.

#### **Establishing a budget**

Develop the first year's budget of the new service based on a conservative estimate of its potential performance. Assume that events will not occur as predictably as you might wish. Allow for some shortfall in revenue and some overspending. Assume certain startup costs and also include the efficiency of office personnel services.

Mixed Mowing & Maintenance's budget for the addition of seasonal color service is shown below. While it may not reflect your new startup, it contains the type of costs and operating planning you should address when offering a new service:

#### 1. Sales

Revenue is based on assumed customers from the current client base determined by the current customer survey and a projection of customers we can attract.

#### 2. Operating Expenses

The cost of flowers is based on the cost per flat of flowers. Shop around early on in the process for volume discounts. Develop a realistic picture of your expenses.

Vehicle costs relate to the new vehicle purchased for the new service. Don't pass along an old vehicle to a new service. Budget also for vehicle operating costs for fuel, oil, maintenance and other items.

Labor. When a new service is started, often it doesn't run smoothly unless sales are being recorded in excess of the plan. Include payroll taxes and other employee benefits in the budget here.

#### 3. Administrative Expenses

Payroll expense should cover the cost of a new sales person for this service. Again, budget for payroll taxes, other employee benefits and, possibly, vehicle expenses.

Advertising will be the cost for direct mail, brochures and other communications.

If you purchased a franchise, you will need to budget the costs to attend the franchise training seminar.

#### Ask questions everywhere

Before launching a new service, become as well informed as possible. Contact owners in a different market about their experience, seek input from consultants and, if you choose a franchise, call other franchise owners. Embarking on a new service for a company can be exciting. Just remember to be certain that the new business is not taking the life out of your main business.

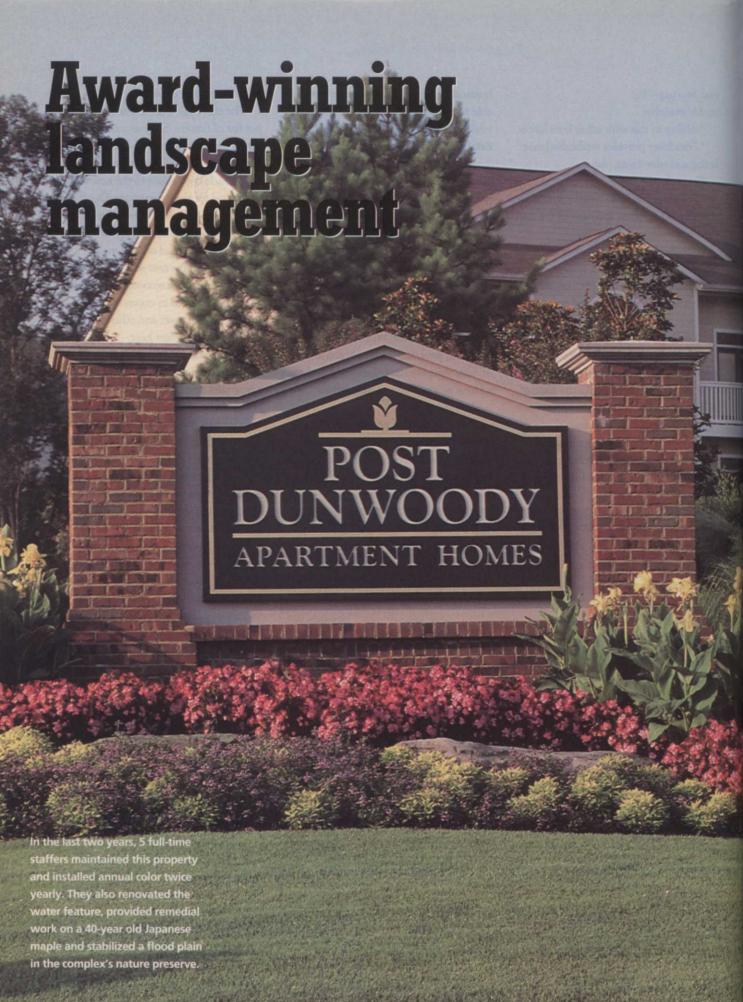
Often, employees who are not involved with the new service can become frustrated when they see the enthusiasm generated by the new venture. Keep a finger on the pulse of all your employees when a new service starts up. Be ready to provide focus and excitement to the people involved in your main business too.

A new service can be both profitable and rewarding. However, this usually doesn't occur in the first year. Give a new service offering 3 years before you make a decision about its success.

The authors provide green industry consulting services for Wandtke & Associates, Inc.

#### SEASONAL COLOR INC. – PROJECTED PROFIT & LOSS STATEMENT

Revenue	Year 1	Year 2	Year 3
Seasonal color	\$75,000	\$170,000	\$285,000
Total Revenue	75,000	170,000	285,000
Operating Expenses			
Payroll	36,000	50,000	75,000
Materials	37,500	76,500	114,000
Gasoline	3,000	4,500	6,000
Vehicle maintenance	1,500	3,000	4,500
Payroll taxes	7,200	10,000	15,000
Operating supplies	500	1,000	1,500
Uniforms	1,200	1,500	1,800
Total operating expenses	86,900	146,500	217,800
Gross profit	(11,900)	23,500	67,200
Administrative Expenses			
Payroll- sales	15,000	29,750	43,320
Payroll- taxes, etc.	3,000	5,950	8,664
Trade shows	600	600	600
Advertising/promotion	5,000	5,000	5,000
Vehicle depreciation	3,000	3,000	3,000
Vehicle expense	3,000	3,000	3,000
Entertainment	800	800	800
Total Administrative Expenses	30,400	48,100	64,384
Operating profit	(42,300)	(24,600)	2,816





## Post Dunwoody Apartment Homes

The 1998 Grand Award Winner of the Professional Grounds Management Society for Condominium, Apartment Complex or Planned Community

n keeping with the Post mission statement, "to provide the superior apartment living experience" for their residents, the lush, inviting, naturalistic grounds of this award-winning property are integrated to serve as outdoor living environments.

The Post Dunwoody Apartment Homes is a 20-acre, 530-unit, upscale, garden-style apartment community in north Atlanta, GA. The property has two resort-style swimming pools; two tennis centers; a 25-plot urban vegetable garden; an eight-acre nature preserve; a one-mile jogging/biking trail that borders the nature preserve; 10 picnic areas; and 1/4 mile of road footage.

To maintain year-round color interest, 15 annual beds, totaling 13,500 square feet, are installed twice yearly. Summer annual displays are incorporated in late April, and cool-season presentations of tulips and pansies are planted in November. More than 30,000 square feet of herbaceous perennial displays also offer seasonal color support.

The grounds are made up of a very diverse plant palette: turfgrasses, such as Meyer zoysia in irrigated areas, and Tif 419 hybrid bermuda in nonirrigated areas; evergreen and deciduous trees; woody ornamental shrubs; ground covers; ornamental grasses; herbaceous perennials; annuals; and wetlands.



# Property at a glance:

Location: Atlanta, GA

Staff: Post Landscape

Operations

**Category:** Condominium, Apartment Complex or Planned Community

Year site built: 1989

Total acres maintained: 20

Acres of woody ornamentals: 4

Acres of display beds: 1

Total man-hours/week: 80

# Maintenance challenges

- ➤ The multilevel koi pond, surrounded by specimen conifers, must be carefully maintained. The groundcovers must be hand pruned.
- Neighboring development just south of this property has caused the team to increase its efforts to maintain the ambiance of these apartment landscapes.
- ➤ Regular deadheading and pruning of summer annuals keep them shapely, in peak bloom and inbounds.
- Taking care of the many specimen conifers is a large challenge, including preventive and curative measures such as systemic injections for pest control.

# Take the plunge into irrigati

By PALMA PATRUCCI

or many landscape maintenance professionals, making the decision to expand your services to include irrigation system installation and maintenance not only requires increased product knowledge, but a renewed focus on sales techniques as well.

The best place to start is with your local irrigation equipment distributor. A distributor will be able to walk you through various irrigation products, show you how the products work and provide valuable guidance for setting up your new venture. Additionally, they'll be able to put you in touch with manufacturer sales and technical support personnel.

Before taking the plunge into irrigation, it's best to learn as much as you can about the products currently on the market. Talk to your distributor and see when they will be holding a product field day in your area. Also, try to meet with a distributor sales representative, who may also recommend additional sources of training.

Arming yourself with the correct product and sales information is vital. Competition can be fierce. Focus on offering your customers and potential customers quality products and service. This will help set you apart from your competition.

#### Seven steps for success

The following 7 steps will help you sell irrigation services to your customers:

#### TIP #1: Talk to existing customers.

Do they have an automatic irrigation system? Is it water efficient, automatic and was it installed properly? Repairing or

retrofitting an existing system can be an excellent source of revenue and can provide some valuable experience as well.

- Do your customers' properties have extensively landscaped beds? Do they have a drip irrigation system? If not, find out why. Demonstrate a drip irrigation system.
- Explain the benefits of automatic irrigation: eliminating hand watering; efficient coverage; and the ability to apply water at the correct time (early morning).
- If they have a front yard irrigation system, is there an opportunity to do the backyard or hanging pots?

#### TIP #2: Ask customers for referrals.

In addition to asking friends, family and your existing customers' neighbors, talk to local suppliers. They can be an excellent source to find "overflow" work from your competitors.

#### TIP #3: Use direct mail.

- Develop and send out business reply cards (BRCs). One side discusses your services and a place for interested potential clients to respond. The other side has your address with prepaid postage. Include your phone and fax number.
- A BRC can advertise a special price if your potential customers act now. Put a time limit on the special to create urgency.
- ▶ Place a flier in a third-party coupon pack mailer like "Value Pack."
- Pay a teenager to canvas nearby neighborhoods and place fliers on doors. TIP #4: Immediately cultivate leads.
- Call the potential customer immediately and set up an appointment.
- ▶ Be prompt for the appointment and dress professionally. Your image will affect the first impression you make.



Develop a list of pertinent questions to gather information about the needs of the potential customer. Give some background on you and your company. Have references ready.

- Make sure your truck or car is clean.
- ▶ Develop a list of questions to gather information about the needs of the potential customer. Explain why you need the questions and give some background on you and your company. Have references and phone numbers handy. (Get approval from the references beforehand).
- Set up a second appointment so you can come back with your recommendations and a proposal.

Some manufacturers provide homeowner literature to include in your presentation. Use it.

- ▶ Present a typed, professional and clear proposal. Include prices, service and all value-added services you will provide. If your proposal is higher than most competitors' prices, be prepared to explain why you're worth it.
  - ► Ask for the job!

#### TIP #5: Keep promises

- Follow through on your promises, prices and commitments. Show up for the job on the day you said you would come and be prompt. If you're delayed, call and explain your situation.
- ▶ Inform your customer how long you expect to be working on their property and try to keep to that timetable.
  - ▶ Clean up the job site daily.

#### TIP #6: Promote yourself

▶ Place your company sign and sales brochures in a visible place on the job site, with the client's permission, of course.

#### TIP #7: Educate the customer.

- ▶ Once job is done, walk the homeowner through the system. Explain the controller, basic troubleshooting, and cleaning or changing a nozzle. Place a sticker with your company name and phone number on the controller cabinet.
- ▶ Follow up with the customer either by phone or mail two weeks after completing the job to ensure satisfaction and to answer any questions. If the customer is happy, ask to use him or her as a reference.

Palma Patrucci is Western Regional Sales Manager for Rainbird.

# A-TO-Z IRRIGATION EQUIPMENT TERMS

**Application Rate:** A measurement of the volume of water applied to landscape in a given time. (In the United States, usually expressed in inches per week. Its metric equivalent is centimeters per week.)

**Automatic Control Valve:** A valve which is actuated by an automatic controller by electric or hydraulic means. It is synonymous with "remote control valve."

**Automatic System:** An irrigation system which irrigates in accordance with a preset program.

**Controller:** A controller is a timing device (usually electronic) which activates, times and sequences control valves according to a user-defined program.

**Coverage:** The area of landscape watered by a sprinkler or grouping of sprinklers.

**Cycle:** The completion of a controller's watering time when it sequences through all the zones in an irrigation system.

**Domestic Water:** Potable or "drinking" water. It can be used as a source of irrigation water, but once water enters an irrigation system it is no longer considered domestic or potable.

**Drip Irrigation:** This is a low-volume method of irrigation utilizing specially designed components to deliver precise amounts of water directly to the root zone of plants. Used primarily in landscaped and planter areas, this irrigation method maintains an optimum moisture range in the soil.

**Dynamic Pressure:** The pressure of the irrigation system during operation. Synonymous with "working pressure."

**Evapotranspiration:** The amount of water lost by the plant and the soil through both evaporation and transpiration.

**Irrigation Efficiency:** The percentage of water which is actually *stored in* the soil and available for use by the landscape as compared to the total amount of water *provided to* the landscape.

**Irrigation System:** A set of components which includes the water source (e.g., domestic

service or pump), water distribution network (e.g., pipe), control components (e.g., valves and controllers), emission devices (e.g. sprinklers and emitters) and possibly other general irrigation equipment (e.g. quick coupler and backflow preventer).

**Irrigation Requirement:** The quantity of water needed by the landscape to satisfy the evaporation, transpiration and other uses of water in the soil. The irrigation requirement is usually expressed in depth of water and equals the net irrigation requirement divided by the irrigation efficiency.

Precipitation Rate: The rate at which a sprinkler system applies water to the landscape over a period of time. PR is expressed in depth of water per hours of operation, usually in "inches per hour."

Radius of throw: The distance a sprinkler will distribute, or discharge water. It is conventionally the radius of water discharged from the sprinkler nozzle.

Rain Shut-Off Device: A device which prevents the controller from activating the valves when a preset amount of precipitation occurs.

**Remote Control Valve:** A valve which is actuated by an automatic controller by electric or hydraulic means. Synonymous with "automatic control valve."

**Rotor:** A rotor is a rotary sprinkler, usually with an adjustable arc. Generally, rotors have single or multiple nozzles which rotate across the area of coverage to distribute water. Rotors have a distance of throw from 15 to 160 feet and economically apply water to large areas by using fewer heads than spray heads.

**Spray head:** A spray head is a fixed-arc sprinkler that requires no moving parts to distribute water. Generally, sprayhead sprinklers emit single or double sheets (or "fans") of water in a fixed pattern. They have a distance of throw of 5 to 18 feet and are used in smaller areas.

**Valve:** A valve is a mechanical or electrical device used to control the flow of water in a system. In most irrigation systems, the valve is actuated by a controller.

### Quiet hand-held power blower

Echo, Inc. introduces the PB-24LN (Low Noise) hand-held power blower. This gas-powered mower generates 67dBa at full throttle at 50 feet, per ANSI B175.2-1990. This new blower is one of the quietest gas-powered, hand-helds on the market, designed specifically with the sensitive issue of blower noise in



mind. It delivers an average air volume measured at the end of the pipe of 300 cubic feet per minute and a maximum velocity of 150 mph.

The unit is powered by Echo's commercial-duty, 23.6-cc, dual-piston ring engine, with Pro-Fire® electronic ignition and purge pumpequipped carburetor for fast starts. Other features include a fully adjustable cruise control, a wide, rubber-padded base and a soft, rubber grip, sloped handle which is contoured to

fit the hand naturally. In addition, the PB-24LN has a redesigned muffler, an enclosed engine with sound-blocking materials, a modified air intake and sound-attenuating materials around the blower itself.

For more information contact Echo, Inc. at 847/540-8400 or Circle No. 271

#### MTD offers first rider in Pro line

The MMZ is the first sit-down professional mower in the Pro line. Powered by a 25-hp Kohler OHV

> V-twin engine, the MMZ has a 54-inch floating deck. It also offers fully adjustable lap bar controls, 5-inch operator seat adjustment, 10-

> > gallon fuel capacity, 9-mph transport speed, Service Pro meter and a

pivoting front axle. The 980-lb. machine provides for lower impact

mowing and with 75% of the weight in the rear, the MMZ has better traction.

For more information contact MTD at 330/273-4550, fax 330/225-9133 or

Circle No. 273

### DRIVE® registered for turf use

Drive herbicide, from BASF Specialty Products, represents a new chemistry for the turf herbicide market with the active ingredient quinclorac. It can be used on a number of turf species including creeping bentgrass, Kentucky and annual bluegrass, perennial and annual ryegrass, tall fescue, both common and hybrid bermudagrass and zoysia.

Drive also offers a unique combination of postemergence and residual control in a single postemergence application. Target weed species include crabgrass, dandelion, speedwell and numerous broadleaf and grassy weeds, including torpedograss and kikuyagrass.

The herbicide provides lawn care operators flexibility. As a postemergent spring treatment, contact and residual activity controls broadleaf weeds and crabgrass in a single application. With broad tank mix flexibility, most early-season weeds can be treated with one pass.

For more information contact BASF at 800/669-1770 or

Circle No. 274

### Blower with 195 mph air velocity

The Shindaiwa EB500 is a more powerful version of the SuperQuiet EB480, capable of nozzle velocities up to 195 mph. Designed to loosen debris with high wind speed and

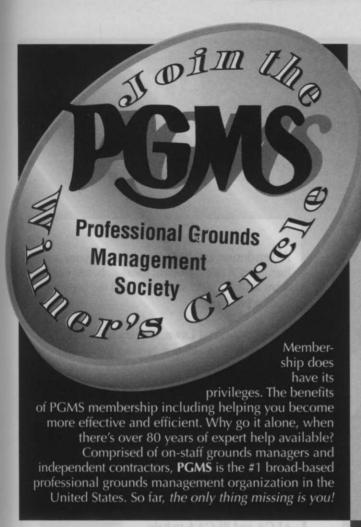
move it efficiently with high air volume, the EB500 was designed in response to requests for a stronger piece of cleanup equipment.

The new unit is powered by a 43.6-cc engine and features an advanced design, glass-filled nylon impeller and precision blower case. The air tube swivels vertically for easy operation and a large 71 oz. fuel tank allows for long work cycles. Other features include high performance, air-cooled, two-cycle engine with chromed cylinder and two-ring piston; improved throttle and fuel shutoff controls; Walvro WYJ di-

aphragm carburetor with primer pump for all-position operation; all transistor electronic ignition; forced air cooling; and high capacity dry element air filter.

For more information contact Shindaiwa at 503/692-3070, on the web at www.shindaiwa.com or

Circle No. 272



# 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.

### Members nationwide agree:

PGMS provides the greatest professional networking opportunity for grounds professionals.

### What are you waiting for?

For more information about beginning your membership, fill out the form below and mail today. Or save time and FAX us: 1-410-584-9756. Isn't it about time?

Mail to: <b>PGMS</b> 120 Cockeysvi Hunt Valley, M Phone: 410-58	lle Rd, Suite D 21030	#104 x: 410-584-9756
Name (please print) _	N. JAHON	
Organization	TAJ E	
Street Address		
City	State	Zip
Phone ( )	Fax (	)
Internet/E-Mail Addres	s	Roymen at 15 to 15

- Local branch meetings
- Bi-monthly newsletter
- Membership card and certificate, entitling you to discounts on rental cars, books and videos
- 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





Attendance at EXPO 99 will affect your bottom line. You'll rake in bright ideas ... better management skills ... new sources ... and the latest array of new products.

The International Lawn, Garden & Power Equipment Expo IS new products. See 600 exhibiting companies with outdoor power equipment, irrigation supplies, hand tools, and off-season products. The 20-acre demonstration area is open all three days, within steps of the indoor exhibits.

Don't miss the industry's most important event!

Free seminars sponsored by ALCA and PLCAA to help you grow your business.



EXPO 99

Saturday, July 24 - Monday, July 26, 1999 Kentucky Exposition Center Louisville, KY USA

For pre-registration information contact Sellers Expositions, 800-558-8767, or 502-562-1962. Fax 502-562-1970.

Check out EXPO's web site at: http://EXPO.mow.org.

Circle no. 123 for visitor information Circle no. 155 for exhibitor information



Sponsored by the Outdoor Power Equipment Institute, Inc.

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

LAN	DSCAPE	
	nagement	

NAME (please print)			
TITLE			
FIRM			
ADDRESS			
CITY		STATE	ZIP
PHONE ()	FAX (	)	
NTERNET/E-MAIL ADDRESS			

8	ADDRESS																
March 1999	CITY							STA	TE_				ZIP_				
This card is void after May 15, 1999	ADDRESS			FA	X (_		)										
would like to receive (continue receiving) l																	
Signature:	Date:										0	AN AI	JV/Al'	mmunica	dians inc	All right	CATION
III in ovals as shown:  My primary business at this location is: (fill in ONE CONTRACTORS/SERVICE COMPANIES 2 255 Landscape Contractors (installation and mai 3 260 Lawn Care Service Companies 4 265 Custom Chemical Applicators 5 270 Tree Service Companies/Arborists 6 275 Landscape Architects 77 280 Land Reclamation and Erosion Control 285 Irrigation Contractors, Service Companies (please NSTITUTIONAL, FACILITIES	only) ntenance)	3. SERV 400 A 410 B 420 C 430 D 440 E	Mowing Turf In: Tree Ca Turf Ae Irrigatio	RFORM Sect Co re ration on Serv	MED (fi	45 C 46 C 47 C 48 C 49 C	ALL that OF Turn OG Turn OH Orn OI Lan	apply) f Fertiliza f Disease amental dscape f Weed 0	control	ol 55	00000	K Pav L Pon M Lan N Sno O Oth	ing, D d/Lak dscap w Rer er (ple	eck & e Care e Insta noval ease sp	Patio allation pecify)	Install	ation
6 275 Landscape Architects 7 280 Land Reclamation and Erosion Control		4a. Do y	ou spec	ify, pu	rchase 76	e or in	fluence	the sele	ction o	f lands	cape	produc	ts?				
9 290 Sports Complexes 1 295 Parks 1 300 Right-of-Way Maintenance for Highways, Ra 2 305 Schools, Colleges, Universities 3 310 Industrial or Office Parks/Plants 4 315 Shopping Centers, Plazas or Malls 5 320 Private/Public Estates or Museums 6 325 Condominums/Apartments/Housing Develor 7 330 Cemeteries/Memorial Gardens 8 335 Hospitals/Health Care Institutions 9 340 Millions Parkingtons or Singlesson	illroads or Utilities pments/Hotels/Resorts	56 02 57 03 58 04 59 05 60 06 61 07 5. Do yo	Aerato Blower Chain Chippe De-ice Fertiliz Fungic u have	which rs s Saws r-Shree rs ers ides interne	dders	62 63 64 65 66 67 68 ess?	00 buy 0 0 8 H 0 9 H 0 10 L 0 11 N 0 12 S 0 14 S 77 O A	r specify lerbicide: nsecticid ine Trimi flowers now Rer prayers preaders	r: (fill i s es mers noval E	Equipm	that a	pply) 59 00 70 00 71 00 72 00 73 00	15 St 16 Tr 17 Tr 18 Tr 19 Tr 20 Ur			Attach	ments
13 360 Sod Growers, Turf Seed Growers & Nurserick 14 365 Dealers, Distributors, Formulators & Brokers 15 370 Manufacturers  Other (please specify)		101 11 102 11 103 11 104 11 105 11	4 126 5 127 6 128 7 129	138 139 140 141	150 151 152 153	162 163 164 165	174 1 175 1 176 1 177 1	86 198 87 199 88 200 89 201	210 211 212 213	222 223 224 225	234 235 236 237	246 247 248 249	258 259 260 261	270 271 272 273	282 283 284 285	294 295 296 297	306 307 308 309
2. Which of the following best describes your title? (fi 66 10 Executive/Administrator - President, Owner, Chairman of the Board, Purchasing Agent, 67 20 Manager/Superintendent - Arborist, Architec 80 30 Government Official - Government Commiss 89 40 Specialist - Forester, Consultant, Agronomist Horticulturist, Certified Specialist 80 50 Other Titled and Non-Titled Personnel (please)	II in ONE only) Partner, Director, General Manager, rector of Physical Plant t, Landscape/Grounds Manager, ioner, Agent, Other Government Official t, Pilot, Instructor, Researcher, se specify)	106 11 107 11 108 12 109 12 110 12 111 12 112 12	9 131 0 132 1 133 2 134 3 135	143 144 145 146 147	155 156 157 158 159	167 168 169 170 171	179 1 180 1 181 1 182 1 183 1	91 203 92 204 93 205 94 206 95 207	215 216 217 218 219	227 228 229 230 231	239 240 241 242 243	251 252 253 254 255	263 264 265 266 267	275 276 277 278 279	287 288 289 290 291	299 300 301 302 303	311 312 313 314 315
							- 11	11	11								



Illiandlahillian liddadahidahidalid

POSTAGE WILL BE PAID BY ADDRESSEE



ADVANSTAR COMMUNICATIONS INC PO BOX 5054 **PITTSFIELD MA 01203-9697** 

	NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES	
-		
1		
1		
1		



### BUSINESS REPLY MAIL

PERMIT NO 950

POSTAGE WILL BE PAID BY ADDRESSEE



ADVANSTAR COMMUNICATIONS INC PO BOX 5054 PITTSFIELD MA 01203-9697

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

u	ı	1	ı	11	i	ı	ı	11	ıl	,	I	l	ı	ı	ı	ı	ı	I	ı	ı	1	ı	ı	II	١	1	ı	ı	ı	,	ı	١	1	ı	ı	,	ı	I	h	1	

# LANDSCAPE

#### March 1999

This card is void after May 15, 1999

NAME (please print)				Total and the state of the stat
TITLE				
FIRM				
ADDRESS				
CITY		STATE	ZIP	
PHONE ()_	FAX ()			
INTERNET/F-MAIL ADDRESS				

I would like to receive (continue receiving) LANDSCAPE MANAGEMENT free each month: Yes one

Signature:

1. My primary business at this location is: (fill in ONE only)
CONTRACTORS/SERVICE COMPANIES
02 0 25 Landaugus Companies Fill in ovals as shown: •

255 Landscape Contractors (installation and maintenance)
 260 Lawn Care Service Companies

03 \( \) 260 Lawr Care Service Companies
04 \( \) 265 Custom Chemical Applicators
05 \( \) 270 Tree Service Companies/Arborists
06 \( \) 275 Landscape Architects
07 \( \) 280 Land Reclamation and Erosion Control
08 \( \) 285 Irrigation Contractors
\( \) Other Contractors/Service Companies (p

ors/ Service Companies (please specify) INSTITUTIONAL FACILITIES

Other Groundscare (please specify)

SUPPLIERS AND CONSULTANTS
22 355 Extension Agents/Consultants for Horticulture
23 360 Sod Growers, Turf Seed Growers & Nurseries
24 365 Dealers, Distributors, Formulators & Brokers
370 Manufacturers
Of Ther (please specify)

Other (please specify)

2. Which of the following best describes your title? (fill in ONE only)
26 10 Executive/Administrator - President, Owner, Partner, Director, General Manager, Chairman of the Board, Purchasing Agent, Director of Physical Plant
27 20 Manager/Superintendent - Arborist, Architect, Landscape/Grounds Manager, Superintendent, Foreman, Superistor
28 30 Government Official - Government Commissioner, Agent, Other Government Official
29 40 Specialist - Forester, Consultant, Agronomist, Pilot, Instructor, Researcher, Horticulturist, Certified Specialist
30 50 Other Titled and Non-Titled Personnel (please specify)

AN ADVANSTAR \* PUBLICATION

3. SERVICES PERFORMED (fill in ALL that apply)
40 A Mowing 45 F Turf Fertilization
41 B Turf Insect Control 46 G Turf Disease Control
42 C Tree Care 47 H Ornamental Care
43 D Turf Aeration 48 I Landscape
44 E Irrigation Services 49 J Turf Weed Control 50 K Paving, Deck & Patio Installation 51 L Pond/Lake Care 52 M Landscape Installation 53 N Snow Removal 54 O Other (please specify)

4a. Do you specify, purchase or influence the selection of landscape products?  $75 \bigcirc$  Yes  $76 \bigcirc$  No

4b. If yes, check which products you buy or specify: (fill in ALL that apply) | 4b. II yes, check which products you buy or specify: (III In ALL that is 56 | 2 Blowers | 63 | 9 Insecticides | 57 | 3 Chain Saws | 64 | 10 Line Trimmers | 58 | 4 Chipper-Shredders | 65 | 11 Mowers | 59 | 5 De-icers | 66 | 12 Snow Removal Equipment | 60 | 6 Fertilizers | 67 | 13 Sprayers | 61 | 7 Fungicides | 68 | 14 Spreaders | 5. Do you have Internet Access? 77 O A Yes 78 O B No

5a. If so, how often do you use it?
79 O A Daily 80 O B Weekly 81 O C Monthly

82 O D Occasionally

101 113 125 137 149 161 173 185 197 209 221 233 245 257 269 281 293 305 102 114 126 138 150 162 174 186 198 210 222 234 246 258 270 282 294 306 103 115 127 139 151 163 175 187 199 211 223 235 247 259 271 283 295 307 104 116 128 140 152 164 176 188 200 212 224 236 248 260 272 284 296 308 105 117 129 141 153 165 177 189 201 213 225 237 249 261 273 285 297 309 106 118 130 142 154 166 178 190 202 214 226 238 250 262 274 286 298 310 107 119 131 143 155 167 179 191 203 215 227 239 251 263 275 287 299 311 192 204 216 228 240 252 264 276 288 300 312 108 120 132 144 156 168 180 109 121 133 145 157 169 181 193 205 217 229 241 253 265 277 289 301 313 110 122 134 146 158 170 182 194 206 218 230 242 254 266 278 290 302 314 111 123 135 147 159 171 183 195 207 219 231 243 255 267 279 291 303 315 112 124 136 148 160 172 184 196 208 220 232 244 256 268 280 292 304 316 2

# Events

#### MARCH

- **16 Trees, People and the Law Seminar** Los Angeles, CA; National Arbor Day Foundation, 402/474-5655; fax 402/474-0820
- **16 OSU Extension Small Equipment and Safety School** Avon, OH; Charles Behnke, 440/322-0127
- 17-18 Advanced Topics in Professional Grounds Maintenance:
  Managing Turf and Landscape
  Weeds Rutgers University Campus,
  New Brunswick, NJ; 732/932-9271
- **18 Trees, People and the Law Seminar** Seattle, WA; National Arbor Day Foundation, 402/474-5655
- **18-21 ALCA Student Career Days** Univ. of Kentucky, Lexington, KY; Elise Lindsey, 703/736-9666

- **18-21 San Francisco Flower & Garden Show** Cow Palace, San Francisco; 800/829-9751; www.gardenshow.com
- 20-21 State Garden Show of Texas Heart of Texas Fairgrounds, Waco, TX; 800/727-9020; fax 817/772-8696
- 22 Plant Health Care: a new direction in the care of ornamental landscapes and trees University of California Extension-Riverside; Jan Crump 909/787-5804, ext.1621; fax 909/787-2456; ww.unex.ucr//ns/ns.html
- 23 Turfgrass Management for the Landscape Industry University of California Extension-Riverside; Jan Crump 909/787-5804, ext.1621; fax 909/787-2456; www.unex.ucr//ns/ns.html
- **25-28 U.S. Bank Boise Flower & Garden Show** Boise Centre on the Grove, Boise; ID; 888/888-7631
- 29-30 Building With Trees

  Conference Lied Conference Center,
  Nebraska City, NE; National Arbor Day

Foundation, 402/474-5655; fax 402/474-0820

**31-April 1 CLCA Landscape Industry Show** Long Beach Convention Center, Long Beach, CA; Kim Heckes, 916/448 -2522; www.clca.org

#### APRIL

- **13** The Practice of Restoring Native Ecosystems Seminar Milwaukee, WI; National Arbor Day Foundation, 402/474-5655; fax 402/474-0820
- 15 The Practice of Restoring Native Ecosystems Seminar Indianapolis, IN; National Arbor Day Foundation, 402/474-5655; fax 402/474-0820
- **19-22 North American Snow Conference** Shaw Conference Centre, Edmonton, Alberta, Canada; 816/472-6100; www.apwa.net
- 22-23 Color Magic/Elements of Color, Florida Nurserymen & Growers Assn. Epcot/Orlando, FL; Merry Mott, 407/295-7994; www.snga.org LM

TurfGrass Trends	delivers .	TUDECDAGE
practical turfgrass management informa	ntion you can use toda	
Yes! Begin my subscription to TUR	FGRASS TREN	Major Developments In Intrigrass Preeding
U.S. & CANADA	\$210 (1 Year) ilable at \$15 each, prepaid.	A particular for the control of the
Signature	Date	The state of a finish gam and leave glasses from a finish and leave from a fin
Account #	Exp. Date	
Billing Address		
City	State	Zip/Postal Code
Fax completed form with credit card information to TurFGrass Trends, 131 We	o 218-723-9417 or 9437, or ma est First Street, Duluth, MN 550	
Charges will appear on your credit ca which publishes a	ard statement as Advanstar Co and distributes this magazine.	
Name (please print)	na in nottourier	is unlique planning system, permits con
Title	Add Total	to multiplicate by days templing
Business	MILLINE	stress are many and still intern
Address	A LE TRUE TO	POST Deal
City	State	Zip/Postal Code
Country		
Internet/E-Mail Address		



INTRODUCING THE ALL NEW PV-II THE SWEEPERS ALTERNATIVE



ECIALIZED EQUIPMEN

The PV-II is the #1 selling slide-in sweeper in America. More sweeping professionals prefer the PV-II than any other slide-in model on the market. But don't take our word for it. Ask our competitors.

- · Slide In Design
- \$13,900.00
- · Polyethylene Construction · Rust Free Hopper

+ TAX/DELIVERY

1-888-922-8224

Circle No. 132





The new concept for spreading dry, flowable materials.

- Labor-Saving! One-person operation from beginning to end of topdressing. Economy! Self-loading, hydraulically operated hopper eliminates the need
- operated hopper eliminates the need for a second tractor to load materials. · Affordable! Simple, exclusive design and simplified components makes the
  - Profits! Using Scoop & Spread helps boost profits and reduce budget costs.



· 888 · 693 · 2638

Circle No. 133

INFORM + INTRODUCE + INFLUENCE + INSTRUCT

Reprints of Landscape Management articles, advertisements, news items or special announcements are available through Advanstar Marketing Services. Customized to meet your specific needs, reprints are highly effective when you use them to:

- Develop direct-mail campaigns
- Provide product/service literature
- Create trade show distribution materials
- · Present information at conferences and seminars
- Train and educate key personnel, new hires
- · Enhance press kits
- Compile reference materials
- Track trends and emerging technologies

ARTICLES **NEWS ITEMS ADVERTISEMENTS** 

### ANDSCAPE

ADVANSTAR MARKETING SERVICES 1-800-736-3665 216-891-2744 Fax: 216-891-2740



### Poke holes, make money

When it comes to aeration, Millcreek gives you more choices, faster delivery, and more ways to help you promote your aeration business.

Models to Fit Your Equipment With so many models to choose from, you'll find a Millcreek aerator to fit your existing equipment.

Rugged Construction Millcreek Aerators are no-nonsense workhorses that get the job done and keep on working and earning.

Affordable Prices You won't find more



14 Front-mount gerators







Circle No. 130



### "I earn 78% more with a FINN HydroSeeder ""

Brian Kerber, The Lawn Firm, Excelsior, MN

"I bought my first hydromulching machine for price. But it's a toy compared to my new FINN HydroSeeder. I've easily doubled my production."

No other machine compares to a FINN HydroSeeder for high production and long trouble-free service life. You'll get faster loading, better coverage, longer spray distance, and more reliable performance. You can get a real

HydroSeeder for as little as \$149 a month. You'll soon know why the most successful contractors agree, "Nothing makes money like a FINN HydroSeeder." Call today.



Innovative Equipment Enhancing the World's Landscape

1-800-543-7166

9281 LeSaint Drive, Fairfield, OH 45014 Fax: (513) 874-2914 www.finncorp.com

HydroSeeder\* is a registered trademark of FINN Corporation

Circle No. 131

800-564-3637 • fax 503-981-4636

P.O. Box 491 • Woodburn, OR 97071

csonnen@oregonsbest.com



AN ADVANSTAR # PUBLICATION

### VISIT US ON THE WEB! www.landscapegroup.com

Signature (required)	receive (continue receiving) ATHLETIC TURF quarterly:	of Manageria
Name (please print)	Title	Translation of
Company Name	Business Address	A Andrewson
City	StateZip	when the
	Fax ()	Taxasa and
Internet/E-Mail Address		
1. My primary business at this location is: ( 0040	0020	io i
20 Manager/Superintendent- Arborist, Arch 30 Government Official- Government Comm	r title? (fill in ONE only)  r, Partner, Director, General Manager, Chairman of the Board, Purchasing Agent, Director of tect, Landscape/Grounds Manager, Superintendent, Foreman, Supervisor ssioner, Agent, Other Government Official list, Pilot, Instructor, Researcher, Horticulturist, Certified Specialist	Physical Plant
10 Executive/Administrator- President, Own 20 Manager/Superintendent- Arborist, Arch 30 Government Official- Government Comm 40 Specialist- Forester, Consultant, Agronor 50 Other Titled and Non-Titled Personnel (page 1) 3. SERVICES PERFORMED (fill in ALL that a A Mowing B Turf Insect Control D Turf Aeration	ar title? (fill in ONE only) er, Partner, Director, General Manager, Chairman of the Board, Purchasing Agent, Director of letet, Landscape/Grounds Manager, Superintendent, Foreman, Supervisor ssioner, Agent, Other Government Official list, Pilot, Instructor, Researcher, Horticulturist, Certified Specialist lease specify)	Physical Plant
10 Executive/Administrator- President, Own 20 Manager/Superintendent- Arborist, Arch 30 Government Official- Government Comm 40 Specialist- Forester, Consultant, Agronor 50 Other Titled and Non-Titled Personnel (p. 3. SERVICES PERFORMED (fill in ALL that a A Mowing B Turf Insect Control D Turf Aeration	rtitle? (fill in ONE only)  er, Partner, Director, General Manager, Chairman of the Board, Purchasing Agent, Director of tect, Landscape/Grounds Manager, Superintendent, Foreman, Supervisor ssioner, Agent, Other Government Official list, Pilot, Instructor, Researcher, Horticulturist, Certified Specialist lease specify)  pply)  Turf Fertilization Turf Disease Control N Snow Removal Landscape Design O Other (please specify)  Turf Weed Control	Physical Plant
10 Executive/Administrator- President, Own 20 Manager/Superintendent- Arborist, Arch 30 Government Official- Government Comm 40 Specialist- Forester, Consultant, Agronor 50 Other Titled and Non-Titled Personnel (g 3. SERVICES PERFORMED (fill in ALL that a A Mowing B Turf Insect Control D Turf Aeration E Irrigation Services 4a. Do you specify, purchase or influence the A Yes B No 4b. If yes, check which products you buy or A A Aerators B Blowers E De-icers F F Fertilizers G Fungicides	rtitle? (fill in ONE only)  re, Partner, Director, General Manager, Chairman of the Board, Purchasing Agent, Director of tect, Landscape/Grounds Manager, Superintendent, Foreman, Supervisor ssioner, Agent, Other Government Official hist, Pilot, Instructor, Researcher, Horticulturist, Certified Specialist lease specify)  pply)  Turf Fertilization M Landscape Installation Turf Disease Control N Snow Removal Landscape Design O Other (please specify)  Turf Weed Control  e selection of landscape products?  specify: (fill in ALL that apply) Insecticides O Sweepers Line Trimmers P Tractors Mowers O Truck Trailers/Attachments Snow Removal Equipment R Trucks Sprayers S Turfseed Spreaders T Utility Vehicles	Physical Plant

FAX us! 1-218-723-9417

Form can also be mailed to Athletic Turf, 131 W 1ST ST, DULUTH, MN 55802-2065. Visit our site at www.landscapegroup.com

# **LANDSCAPE**management

Every month the Market Showcase offers readers of Landscape Management a complete and up-to-date section of the products and services you're looking for. Check it out every month, or you might miss out. For all ads under \$250, payment must be received by the classified closing date. VISA, MASTERCARD, & AMERI-CAN EXPRESS accepted. Send to: Advanstar Marketing Services, 7500 Old Oak Blvd., Cleveland, OH 44130 BOX NUMBER REPLIES: Landscape Management, LM Box #, 131 W. First St., Duluth, MN 55802 FOR ADVERTISING INFORMATION AND AD PLACE-

MENT, CONTACT: LESLIE ZOLA, 440-891-2670,

1-800-225-4569, (ext. 670), Fax 440-826-2865 EmailIzola@advanstar.com

#### **BUSINESS OPPORTUNITIES**

WHY DO NATURALAWN OF AMERICA FRAN-CHISES GENERATE REVENUES IN THE TOP 12% OF THE GREEN INDUSTRY?

- Proven Marketing Provides Accelerated Growth
- Large Exclusive Territories Eliminates Competition
- Differentiate Yourself Using Organic-Based Fertilizers
   Customized Agronomy Programs Based On Your
- Market
- Industry Leading Training For You and Your Employees

With up to 50% financing and discounted franchise fees for qualified candidates, we can make it easy for you to join the leader in organic-based lawn care.



To learn more about becoming a NaturaLawn of America franchise owner, call 800-989-5444 or contact us at

www.nl-amer.com

"DESIGN TO SELL" 2nd Edition: A Complete Guide to Designing And Selling Landscape Projects

Design To Sell will show you the process of obtaining construction accounts, preparing a landscape plan and submitting a winning estimate. Newly revised version now available.

Send \$24.95 Check or Money Order To: CLD DESIGN

PO BOX 125

North Andover, MA 01845 Money Back Guarantee Shipping & Handling Included

#### FOR SALE

Tire Changers For Small Wheels Grounds Maintenance Equipment WWW.wikco.com Or Call 800-872-8864

WIKCO INDUSTRIES, INC. 4930 N 57th St., Lincoln, Ne. 68507

#### **BUSINESS OPPORTUNITIES**



... your good reputation by selling and installing CASTART™ rock waterscapes. Rock waterfalls appeal to customers who demand the best. CASTART building-block systems allow you to install Mother Nature's finest looking waterfeatures and landscaping rocks ... often in less than a day. No crane, backhoe or heavy equipment is needed. With a CASTART franchise you benefit from top-of-the-line products, a protected territory, two weeks of training and much more. www.castartinc.com

800-871-8838

1041 E. Miles St., Tucson, AZ 85719

#### **EDUCATIONAL OPPORTUNITIES**

#### SPANISH for the Green Industry

Workbook • Audiotape • Flash Cards 800-491-0391

#### FOR SALE



LANDSCAPE DESIGN KIT 3

48 rubber stamp symbols of trees, shrubs, plants & more. 1/8° scale. Stamp sizes from 1/4° to 1 3/4°.

\$78.50 + \$6 s/h VISA, MasterCard, or MO's shipped next day. Checks delay shipment 3 weeks. CA add 7.75%Tax.

AMERICAN STAMP CO.
12290 Rising Rd. LM99, Wilton, CA 95693

Local calls: 916-687-7102 Voice or Fax TOLL FREE (877) 687-7102

#### Applicator's Friend's™ shields:





Applicator's Friend

Applicator's Friend

Our "Applicator's Friend Shields" are specifically designed to protect the applicator from the dust generated while applying granular pesticide control products.

Available for Lesco and Scotts commercial speaders.

### Riverside Gardens

420 Old Mill Road, Vestal, NY 13850 1-800-595-2774 • E-Mail: apfriend@epix.net

#### FOR SALE

# Radius by Motorola

NEW!

UHF 460 • VHF 150 • Low Band

Programmed To YOUR System! [Compatible w/Other Systems]

"Talk to anybody from anywhere on the course or job!"

Hand Helds from \$155.00 Mobiles from \$278.00 -Full Year Warranty-

CALL 800-231-0103

\$AVE!

#### HELP WANTED

#### LANDSCAPE/GROUNDS MGMT. DUBROW'S NURSERIES LIVINGSTON.NJ

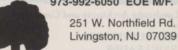
SUPERVISORS. Looking for self-motivated, communicative individual to oversee large accounts. Our corporate client base requires experienced personnel with the following credentials. A BA degree in horticulture, 5 years supervisory experience and a current NJ pesticide license. You must be able to coordinate the administration of owner's contract job specifications.

FOREPERSONS. Experienced

forepersons needed to instruct and supervise daily work activities of maintenance/ landscape crews. Must have minimum of 3 years supervisory experience. Bilingual a

Highly competitive salaries and benefits.

Fax resumes to Bob Greene 973-992-6050 EOE M/F.



973-992-0598

### MISCELLANEOUS



40 x 60 x 12 \$7,523

Build It Yourself And Save 10,000 Sizes, All Bolt-Together All Steel Buildings. Call Today For A Price Quote And A Brochure.

HERITAGE BUILDING SYSTEMS 800-643-555

www.metalbldg.com

#### **HELP WANTED**

### **Eentral Park**

ASSISTANT TURF CARE COORDINATOR The Central Park Conservancy is looking for a qualified person to assist the Turf Care Coordinator in the maintenance of turf in this 843-acre landmark park. 3 to 5 years field experience in turf maintenance, a New York State Pesticide License and good organizational and leadership skills a must. Please forward resume:

Central Park Conservancy Human Resources Dept ATC 14 E. 60a Street, 8a Flr. New York, NY 10022 212-310-6633 Fax EOE M/F/D/V

NO PHONE CALLS PLEASE

#### Landscape Sales Manager

Well established Landscape Company seeks qualified person to step in and improve existing operation. Must be experienced in all phases of residential landscaping from sales to completion, and possess computer skills. We are looking for a team builder. We offer competitive wages and benefits, and stock sharing is available.

Write LM Box 532.

ESTIMATOR/PURCHASING AGENT

Commercial Estimator familiar with Landscape & Irrigation needed for award-winning multibranch landscaping company. Excellent growth opportunities and competitive salary.

Fax or mail resume to Attn: Kerry, Jack's Nursery Inc. 894 Robert Blvd., Slidell, LA 70458 or fax to: 504-643-2691 or E-mail to: kerry@jackslandscape.com

### landsystems

Landscape Architects and Contractors

> FIELD SUPERVISOR

> CREW LEADER

Min. 2 years experience, detailed knowledge of landscape installation. Bilingual (English/Spanish) helpful. San Francisco Bay area. Call (650)851-2793 or fax resume (650)367-0982

#### PROJECT MANAGER • SALES DESIGNER CONSTRUCTION FOREMAN

Award winner for high-end residential installations in Northeast Ohio seeks quality individuals to join and enhance our organization. Diverse and exciting positions offer attractive salary and benefits package to experienced, dedicated and career-minded persons. Degreed candidates in horticulture, landscape architecture, and/or business with trade experience preferred. Contact by mail, fax or phone:

OHIO LAND DESIGN, INC. 7331 Aurora Rd., Aurora, OH 44202 • 330-562-2224 Fax: 440-519-9817 • E-mail: Olandesign.aol.com

PROJECT MANAGER LA and MS's #1 Landscape & Irrigation Contractor... seeks experienced commercial PM.

Excellent salary, benefits and advancement opportunities. Mail resume to: Human Resources Dept. 894 Robert Blvd., Slidell, LA 70458 or Fax to: 504-643-2691 or E-mail to: kerry@jackslandscape.com

Brick paving designer/salesperson: Chicagoland's largest brick paving and retaining wall contracting firm is looking for an enthusiastic and knowledgeable sales associate to compliment our residential

sales force. This person must have at least three years in residential or commercial sales experience in landscape and/or hardscape. Immediate consideration, salary plus commission insurance benefits and company vehicle. Fax resume to: (847)390-0060 or send resume to: American Brick Paving, Inc. 825 Seegers Rd., Des Plaines, IL 60016. ATTN: John Biebrach

LANDSCAPE ARCHITECT/DESIGNER \*EXCEL-LENT OPPORTUNITY\* Looking for a creative, self motivator with strong plant knowledge. Responsibilities include design, estimating and sales for residential and commercial. \*Commission & Benefits\* Please send resume, fax or call Buckley's Prairie Landscaping P.O. Box 75, Springfield, IL 62705. (217)787-5033 fax (217)787-8691

Parks & Recreation Maintenance Supervisor: Responsible for supervising, planning and coordinating maintenance, and construction projects for the parks, athletic fields, swimming pools, zoo, fairgrounds, and other associated city facilities. Qualifications: Bachelor's degree in Park Management, horticulture, landscape architecture or related field, plus 1-3 years supervisory experience. Salary DOQ Deadline: 3/26/99. City of Marshfield, PO Box 727, Marshfield, WI 54449-0727. Phone (715)387-6597. EOE

**EXCITING CAREER OPPORTUNITIES FOR VEGETATION MANAGERS** Rapidly growing Vegetation Management Company is looking for experienced Division Managers to work out of our regional and branch locations throughout the U.S. Must have a minimum of two (2) years experience in Vegetation Management and/or a degree in horticulture/aboriculture/urban forestry or related field. Must be self-motivated, decisive, creative and have strong organizational skills. WE OFFER: Excellent starting salary, -Company paid health insurance, —Excellent working environment, — Bonuses, —Vacations, —401 K Program. For career opportunity and confidential consideration, send or fax resume, including geographic preferences and willingness to relocate to: DeANGELO BROTHERS, INC., Attention: Paul D. DeAngelo, 100 North Conahan Drive, Hazleton, PA 18201, Phone: (800)360-9333, Fax: (717)459-5500. EOE/AAP M-F

paced Design-Build Firm Landscape/Irrigation Foreman to install high end residential projects. Year round employment, salary plus bonus & benfits. Minimum 3 years infield experience. Must have references, be selfmotivated & well organized. Charlotte, N.C. (704)598-2266.

Landscape/Irrigation Foreman: Fast growing landscape construction and irrigation co. is seeking experienced individuals to perform and supervise others in the day to day operations of landscape and irrigation installations and maintenance. Must have strong communication skills, valid driver's license, and knowledge of all landscape techniques and equipment. Must be willing to learn, three years of landscape or related field experience is required. Supervisory experience preferred. Opportunity for fast advancement for the right person. Salary competitive and based on experience. Fax resume to: (978)276-3400 or mail to: DiCicco Landscape & Irrigation, 10 Marblehead St., North Reading, MA 01864

FLORAPERSONNEL, INC. In our second decade of performing confidential key employee searches for the landscape/horticulture industry and allied trades worldwide. Retained basis only. Candidate contact welcome, confidential, and always free. 1740 Lake Markham Road, Sanford, FL 32771. PHONE (407)320-8177. FAX (407)320-8083. Email: Hortsearch@aol.com. Website: http://www.florapersonnel.com.

Growing design/build firm in near west suburbs of Chicago seeks motivated individuals in the following areas: Maintenance Manager - supervise crew of 10, client relations, quality control. Salary package based on level of experience/expertise. Landscape Foreman - install residential landscapes from plan. Trees, shrubs, brickwork, etc. \$15 hr. range. Must have eye for detail and ability to lead. Send resume to: Hoy Landscaping, Inc. 7459 Franklin Forest Park, IL 60130 or call Dan at 708-366-7339. 3/99

LANDSCAPE CONSTRUCTION SUPERVISOR/IRRI-GATION CONSTRUCTION SUPERVISOR/LAND-SCAPE CONSTRUCTION FOREMAN/IRRIGATION CONSTRUCTION FOREMAN. Krueger's Associated Landscape, a full service landscape contracting company servicing the beautiful Portland Metro area, is seeking additional key personnel. Qualified applicants should possess good communication skills, be customer service orientated, have knowledge of scheduling and planning projects, understanding a financial statement, and have proven leadership and interpersonal skills. Bilingual preferred, experience/education required. We offer excellent pay, full benefits and advancement opportunities. For immediate consideration please fax resumes to (503) 647-9861, or call (503) 647-1000.

Exciting Career Opportunities - Munie Outdoor Services, Inc., a well-established, full service landscape maintenance & construction company located in the St. Louis area is seaching for skilled, highly motivated individuals for key positions including Branch Manager, Assistant Production Manager, Landscape Architect and Foreman for our Maintenance Landscape Construction, and Golf & Sports Turf Construction divisions. We offer an excellent compensation and benefits package, in addition to advancement opportunities. Please forward a resume to: Munie Outdoor Services, Inc., Attn: HR Manager, 1000 Milburn School Rd., Caseyville, IL 62232, or fax to (618)632-5475. EOE/AA.

Place your ad today!

#### **HELP WANTED**

Join The Company That Changed the Industry! True or false: 1. You know you're better than what the boss thinks. 2. You're tired of company rhetoric. 3. Your ability to train and help others is one of your strongest points. 4. You're a bit of a "rebel" and believe in your opinion. 5. You like to work hard but really enjoy playing hard. 4 Or More True Answers? Then we want to talk to you. NaturaLawn of America's continued growth has created another regional manager position for operational/technical support. If you enjoy people, communicate well, and have experience in business and training, we want you!!! Fax your resume in strict confidence to (301)846-0320 or e-mail us at natural@nl-amer.com. www.nl-amer.com. 3/99

JOB VACANCY WESTERN TEXAS COLLEGE SYNDER, TEXAS 79549 POSITION: Golf Course/Landscape Technology Instructor DEPARTMENT: Vocational Division EMPLOY-MENT: Full-Time SALARY: College Scale QUALI-FICATIONS: BS/MS Degree, preferred DUTIES: Instruction in golf course operations and green industry classes, supervise labs, and participate in other college/community functions. SPECIAL QUALIFICATIONS: Golf course experience primary qualification. DEADLINE FOR RECEIPT OF APPLI-CATIONS: April 9, 1999. SEND RESUMES TO: Ms. Terry Busby, Director of Human Resources, Western Texas College, 6200 College Avenue, Snyder, TX 79549-9502. DATE OF EMPLOY-MENT: August 1, 1999. WESTERN TEXAS COLLEGE IS AN EQUAL OPPORTUNITY INSTI-TUTION AND IS IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT. APPLICA-TIONS ARE ACCEPTED AND CONSIDERED WITHOUT REGARD TO RACE, COLOR, CREED, SEX, AGE, NATIONAL ORIGIN, VETERANS STATUS, OR DISABILITY.

LANDSCAPE FOREMAN EASTERN LONG ISLAND LAWN & TREE CARE COMPANY SEEKING INDIVIDUALS WITH KNOWLEDGE OF TURF AND/OR TREES FOR HIGH-END CLIENTEL. EXPERIENCE WITH FRUIT TREES, ATHLETIC FIELDS, PUTTING, GREENS AND MEADOWS HELPFILL. SEND RESUME FOR THE 1999 SEASON TO: PO BOX 10, AMAGANSETT, NY 11930 OR FAX TO 516-329-9798 3/99

#### **BUSINESS FOR SALE**

Commercial Landscape Maintenance & Snowplowing firm in NY'S suburban area. 20+ years established. Unlimited growth potential. Excellent reputation. Extensive list of quality equipment. Owner will assist with transition. Serious inquires reply to "Accountant" PO Box 9396, Bardonia, NY 10954 3/99

LANDSCAPE CONSTRUCTION & MAINTENANCE CO. WELL ESTABLISHED 15 YEAR COMPANY IN THE BOSTON, MA AREA. \$2.5M TO \$2.9M VOLUME ANNUAL, PAST 3 YEARS PROFITS HAVE BEEN IN THE SIX DIGIT FIGURES. COMPANY BREAKDOWN, 70% CONSTRUCTION, 20% MAINTENANCE & 10% SNOW OPERATIONS. WELL RUN ORGANIZATION, AND WELL MAINTAINED FLEET. THE 1999 BACK LOG EXCEEDS \$1M TO DATE. MAIL RESPONSES OF INTEREST WITH NAME AND FINANCIAL BACKGROUND TO: CORPORATE VENTURES 271 CANTON ST., STOUGHTON, MASS. 02072

#### **BUSINESS OPPORTUNITIES**

### WANT TO BUY OR SELL A BUSINESS?

Professional Business Consultants can obtain purchase offers from numerous qualified potential buyers without disclosing your identity. There is no cost for this as Consultant's fee is paid by the buyer. This is a FREE APPRAISAL of your business.

If you are looking to grow or diversify through acquisition, I have companies available in Lawn Care, Grounds Maintenance, Pest Control, Landscape Installation and Interior Plant Care all over the U.S. and Canada.

P.B.C. 682 Phelps Ave., Lockport, IL 60446 708-744-6715 • Fax: 630-910-8100

MARKETING OPPORTUNITY Energetic persons needed to network market Conklin products nationwide. A very lucrative part-time, home based business. \$799 investment for product and training. Call 1-800-832-9635 for free catalog. 2/00

#### **BUSINESS WANTED**

BUYER Seeks Design/Build business in Northern Va., Maryland, Eastern Pa., Dcl., New Jersey area. Acreage with house on property, and equipment desired. Serious sellers only. Reply to blind box LM 531

#### **EDUCATIONAL OPPORTUNITIES**

NOW...Learn professional Landscaping and Gardening at home. Accredited program provides thorough training in all phases of commercial and residential landscaping. Diploma awarded. Free brochure describes program and opportunities in detail. Call 1-800-326-9221 or write Lifetime Career Schools, Dept: LF01Y2, 101 Harrison Street, Archbald, PA 18403.

Become a landscape designer. Approved home study. Create plans for lawns, estates, courtyards, walkways, gardens, shubbery. P.C.D.I., Atlanta, Georgia. Free Career Literature. 800/362-7070. DEPT.GTC694.

Two year AAS degree program in Golf Course Maintenance Operations, Landscape Contracting, and one year Golf and Grounds Certificate. Fully accredited, VA approved, expanded learning facilities, new equipment. Graduate placement assistance available. Contact Golf Course Operations/Landscape Technology Dept., Western Texas College, Snyder, TX 79549. 915-573-8511 ext. 305

#### Let Your Classified Ad



From The Crowd! Try the Impact of Color!

Contact Leslie Zola 800-225-4569 ext. 670; 440-891-2670; Fax 440-826-2865 or Email lzola@advanstar.com

### AD INDEX

132	AA-Tach Inc84
111	American Cyanamid
112	American Cyanamid
116	American Cyanamid79(reg)
107	Bayer Corp
	Bayer Corp
	Dow AgroSciences
	Dow AgroSciences
133	Earth and Turf84
130	Environmental Care
106	FMC Chemicals
131	Finn Corp
114	GMC16-19
101	Griffin LLCCV3
105	Howard Price Turf Equipment11
123/155	Intl Lawn & Garden Expo80
120/145	Jacklin Seed
121/146	Jacklin Seed
104	John Deere6-7
113	John Deere45
135	Kawasaki
103	KubotaCV4
102	LESCOCv2-1
119	LESCO
126	MTD Pro34-37
129	Mill Creek Mfg
117	Plant Health Care
109	Rexius21
118	Rhone Poulenc
122	Rhone Poulenc24-25(reg)
125	Rhone Poulenc
150	Rohm & Haas Co
	Rohmid
110	SNG27
140	Turf Seed5
108	Turfco20
115/151	United Horticultural Supply53-54
127	Versa Lok Retaining Wall Sys 84
124	Wellmark Intl26
128	Western Production Inc85

This index is provided as an additional service. The publisher does not assume any liability for errors or omissions.

# Grab Bag

#### Horticultural and Turfgrass Study Tour

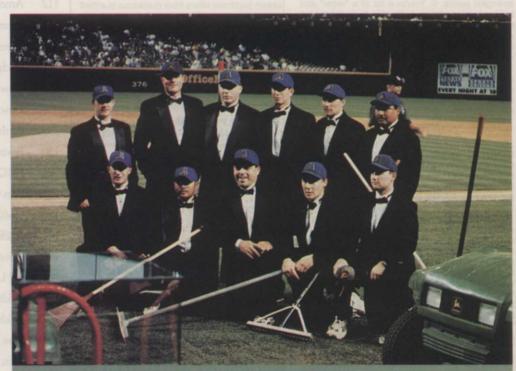
RISE (Responsible Industry for a Sound Environment), PLCAA (Professional Lawn Care Association of America) and TruGreen-Chemlawn sponsored the second Horticultural and Turfgrass Study Tour, hosted by the National Association of County Agricultural Agents (NACAA). The tour agenda was developed and led by turfgrass and horticultural experts from industry, academia and extension services.

Twenty nationally selected urban and suburban county extension agents spent six days visiting research centers, greenhouse operations and botanical gardens, including on-site demonstrations and exhibits. Workshops focused on environmental practices that improve and maintain plant growth, as well as promote stewardship of urban and suburban areas.

### Nice lawn boosts home value 15%

A recent Gallup survey shows that a well-kept lawn and landscape can add up to 15% to the value of a home.

"If Americans want to take advantage of the booming economy and hot real estate market by selling or adding value to their homes, they don't necessarily have to soak thousands of dollars into extensive home renovations," says Sonny Pennington of Pennington Seed.



A black-tie affair? When the Arizona Diamondbacks opened the 1998 season, their first season in Bank One Ballpark, a domed stadium with a zoysiagrass playing field, the grounds crew showed up in tuxedos. Hey fellas, what about those sneakers?

### That's my home sweet home!

The last thing Jim and Lois Syth expected to hear at their son's basketball game was, "Hey Jim, your home is on the cover of a magazine!" The Syths, of Bozeman, MT, were surprised to say the least.

Their acquaintance was Tom Greason of the Montana Fish, Wildlife & Parks Department, who brought them a copy of the February Landscape Management and sure enough, it was their home of 10 years. Mrs. Syth, who landscaped the property, vaguely remembered a photographer taking shots of the home.

Each month, Landscape Management searches for examples of beautiful commercial and residential landscapes from a variety of sources — landscape contractors themselves and independent photo houses are used most often.

This got us thinking: How many of you have homes with outstanding landscapes? We'd love to see them and may even highlight the most striking. If you have original slides, you can send them to us with contact information, and we'll get them back to you promptly.

Grab Bag features brief observations and prognostications throughout the green industry. If you have an unusual photo or comment you'd like to share with us, please send it in...

# Junction" The Essential Fungicide for Greener Greens.

Excellent algae, brown patch and dollar spot control, plus of the Till Ball Care

Junction"

Stal tampanent in resistance management Convenient dry Tono





# Taking over new turf.

You know our M-Series mid-size tractors for their all-round versatility. Now we're going after some new turf.

Introducing our M4700, 2-wheel drive Turf Special. It's got wide flotation turf tires, a low-profile front end, creep

speed for spraying and turf conditioning and a sunshade for added comfort.

Like all Kubota tractors, the M4700 is loaded with features that increase pro-

ductivity and make operation easy.

An ISO-mounted, semi-flat deck greatly reduces vibration

Creep speed transmission has 12 forward speeds (0.17-13.76 mph) with turf tires.



Kubota also offers an M4700 model with 4-wheel drive.

and minimizes fatigue, while hanging pedals add comfort and ease of operation.

The E-TVCS 5-cylinder diesel engine delivers maximum power, with high torque, low noise and low vibration. Enhanced combustion efficiently

reduces fuel cost and lowers emissions.

The Kubota M4700 Turf Special. It's designed from the ground up for landscape and turf applications. And then some.

For more information, please write to:

### Kubota

KUBOTA TRACTOR CORPORATION
P.O. Box 2992, Dept. GM
Torrance, CA 90509-2992
or call Toll Free 1-888-4 KUBOTA ext. 401
(1-888-458-2682 ext. 401)
Financing available through Kubota Credit Corporation



