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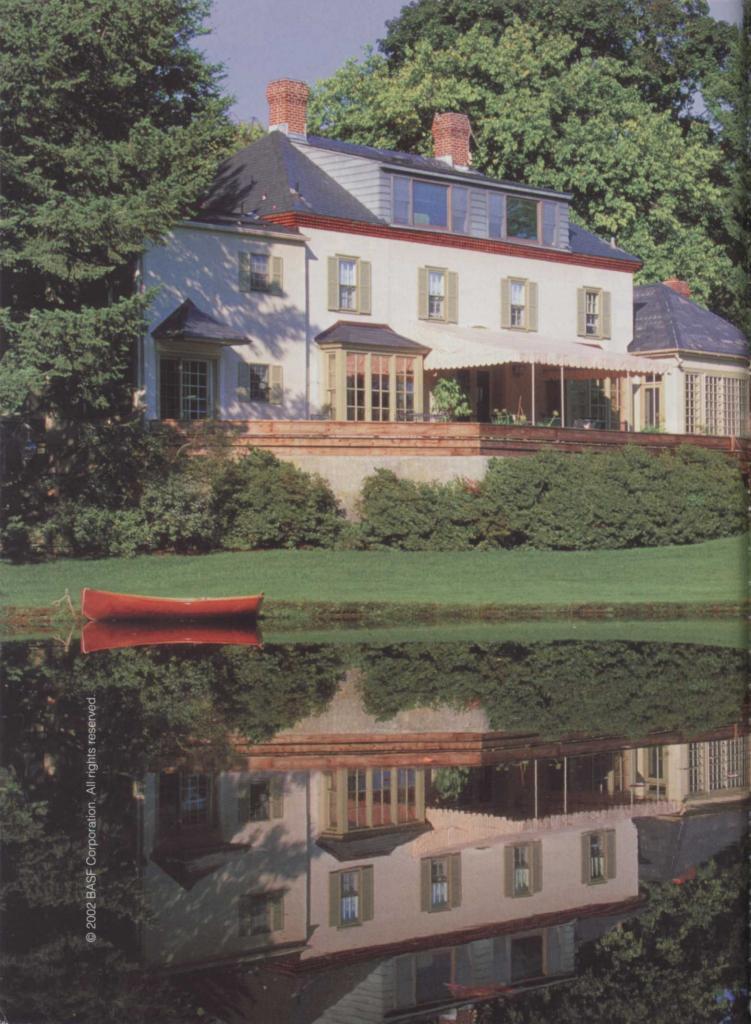
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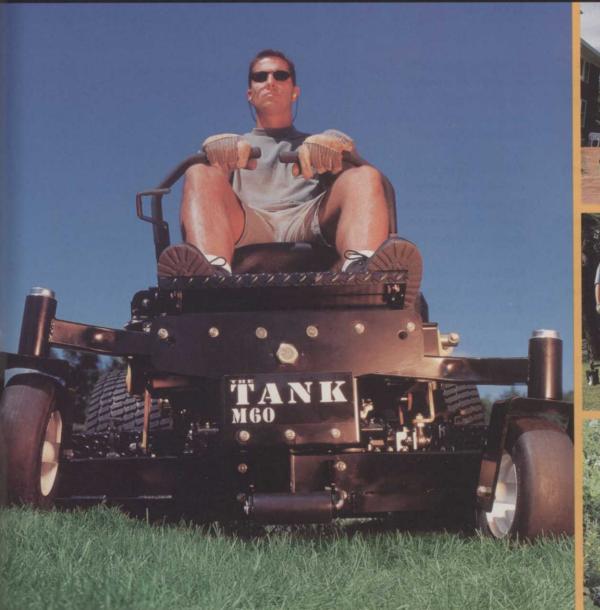
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### ■ Cover story: Beat low-ball competitors

How to beat low-ballers at their own game

#### Insecticides

A list of the latest new products for the most common turf pests

### ■ Marketing irrigation

Tom Del Conte, president of Del Conte's Landscaping, Fremont, CA, talks about the secrets to marketing his company's irrigation services

### ■ Ground prep & aerators

The perfect ground preparation equipment and aerators

### ■ Trucks & mobile accessories guide

The complete guide to trucks and mobile accessories specifically for landscape professionals

### Homework overcomes objections

This grounds director made sure he knew what he was talking about before he made his pitch

■ Plus: Hand-held equipment, Best Practices, landscape pros speak out in "Inside the Owner's Head," the latest news in Industry Almanac, and much more.

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### on the record

BY RON HALL / EDITOR-IN-CHIEF

## We haven't seen anything yet

alm trees in New Jersey?

If you bet against that, you're wagering against a technology that's redefining agriculture and will, a few years down the road, give us some incredible turfgrass and ornamental plant material. The brave new world of genetic manipulation is just one of many trends that will stretch and challenge our landscape industry. I mention it first because it's one of the most visible trends.

The same is true for instant messaging and the vast amounts of information and data now available at our fingertips. Who among us envisioned the Internet even 15 years ago? Personal computers, communication satellites and the World Wide Web have greatly expanded our abilities to exchange ideas and gather data. It's happening so fast some of us are just now catching on to these technologies.

But we're not just talking advances in the materials we regularly use, products like equipment, turf, plants and chemicals. We anticipate these changes. We take their increasing sophistication for granted. They're part of the fabric of our still young and evolving industry.

It's the other changes, the unforeseen and unexpected ones that will challenge, perhaps dismay us and cause us to rethink the scope of services we offer our customers and how we price, market and deliver them.

### A shocking auction

The following is an example that surfaced at the ALCA Executive Forum just a couple of weeks ago, and it caused some consternation and discussion among the 200 or so landscape professionals who attended the event.

Kurt Kluznik, owner of Yardmasters, Inc., the

largest landscape company in Ohio, recounted how GE, one of his big maintenance clients, conducted an "auction" on the Internet to determine who would maintain two of its properties, properties that his company had serviced well. He wasn't thrilled with the idea of the auction but he participated just the same. What could he do?

GE put the specifications for the properties on its Web site, the landscape company owner said, and opened the auction at \$50,000. Bidders were identified on the Web site only by number, not by name. As the bids dropped lower and lower on the computer screen, so did the owner's spirits.

"We ended up with one of the two properties," he concluded. "We went as low as we could go."

Is GE's use of an Internet auction a blip or is it a trend that's just now coming into focus? Probably the latter. Many of our customers are as interested in efficiencies as we are, and they'll use available technologies to achieve them.

Changes are coming so fast and furious that not even the prospect of seeing palm trees growing in New Jersey seems so outlandish anymore.

Contact Ron at 440/891-2636 or e-mail at rhall@ advanstar.com

Change will challenge us to rethink
Our services and how we market,
sell and deliver them.

## inside the owner's head

BY RON HALL / EDITOR-IN-CHIEF

Communicate with your Hispanic employees

ommunication is key."

That's the message, in big red letters, that Bruno Pillari sees every day on a message board at company headquarters. Bruno and brother Joe operate Pillari Brothers, Inc., Howell, NJ.

They face the same problem as thousands of other Green Industry professionals—communicating with their Spanish-speaking employees. Their 22-year-old firm is comprised of two divisions, design/build and landscape contracting, and employs about 100 workers in season.

Bruno and Joe take a proactive approach to communication. It's not uncommon to see either brother in the field, talking to and encouraging workers. That's getting tougher to do, though.



Joe, left, and Bruno Pillari work to break down the language barriers at their NJ firm.

"As we have grown (about \$7.5 million in 2001), it becomes more difficult to maintain that communication," says Bruno. "It's important that we establish procedures in communicating."

Bruno said that several Hispanics serve as foremen in the company, including a recently promoted shop manager. This facilitates communication. It's a trend that the brothers would like to see grow.

When the brothers gather all employees for their annual April "Spring Kickoff" meeting, they make sure everyone knows their goals and what's expected of each employee, both English and Spanish speakers.

"As for myself, I want to learn Spanish well enough to write it," says Bruno.

### **Team spirit**

Central Coast Landscape & Maintenance provides a range of award-winning land-scape services in and around beautiful Santa Cruz County, CA. It's operated by Jack Long and his son, Scott. Like the Pillari brothers, the Longs realize that effective communication increases the effectiveness of employee training and, ultimately, delivery of services.

The firm's 30 employees, including its Hispanic workers, gather each Wednesday at 7:30 a.m. for 30 minutes of training.

"We review our company mission statement each week in English and Spanish," says Jack Long. "We encourage employees to give us feedback on what the different parts of the mission statement mean and how it relates to them and how they do their jobs."

Because of the region's mild climate, landscape care there is year-round, and the company keeps a stable work force, primarily, believes Long, because of its efforts to communicate with its frontline employees. "Not all of our training is about how to trim or mow. They know how to do this although we go over this," says Long. "We discuss business-related issues, too."

### ¿Habla Español?

"Spanish Phrases for Landscaping Professionals" by Jason Holben and

Dominic Arbini has just been published by Stock Pot Publishing. This 204 page book contains more than 1600 words and phrases complimented by simple, intuitive phonetics. Call 303/863-1685 or e-mail StockPotSpanish@hotmail.com.



Jack Long: weekly meetings give workers a positive sign.

Most of CCL&M's Hispanic employees understand some English. Even so, the company relies upon bilingual employee Martin Ballesteros to serve as a liaison between management and the workers.

SPANISH PHRASES

LANDSCAPING

PROFESSIONALS

The message Long and his management team communicates to all employees is that they aren't considered "human wheelbarrows" but valuable team members.

Long says they're starting to get the message, which indicates that the company is doing a better job of communicating.

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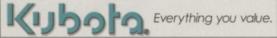
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## industry almanac

### Deere folds in Century Rain Aid

MOLINE, IL — Century Rain Aid is now part of John Deere Landscapes. Deere & Company acquired all 170 Century branches with the purchase of Century's parent company, Richton International Corporation. The Century locations were combined with 50 branches of McGinnis Farms, Alpharetta, GA, wholesale distributor that had previously been acquired by Deere.

### Scotts acquires Ehrlich's division

READING, PA — J.C. Ehrlich Co., the fifth largest company in the structural pest control market, sold its lawn and tree care services division to Marysville, Ohio-based Scotts LawnService. The sale did not include Ehrlich's tree surgery, grounds maintenance services and vegetation management services.

### Cebeco invests in Premier

HALSEY, OR — Cebeco International Seeds signed a letter of intent Jan. 24, 2002 to purchase 40% of the issued and outstanding shares of stock of Premier Pacific Seeds, Ltd., Vancouver, BC.

### Masterblend acquires Tyler

ELWOOD, IL — Masterblend International, the largest custom formulator of water soluble fertilizers for the commercial horticultural industry, has finalized its purchase of Tyler Enterprises.

## Pre-season selling strong despite worries, say lawn care pros

BY JASON STAHL/ MANAGING EDITOR

Despite a sluggish economy and unpromising economic forecast for 2002, lawn care professionals across the country are saying

that business drummed up from early pre-season selling is falling right in line with last year. Some are even saying that they may outdo last year's performance.

"We did some early advertising because we were worried [the economy] would be flat, but response has been better than we thought it would be," says 30-year-industry veteran Gary LaScalea, owner of GroGreen, Plano, TX. "Our pre-pays are actually up 15% from last year."

Jack Robertson, owner of
Jack Robertson Lawn Care, Springfield, IL,
was also worried coming into the selling
season, which is why he chose to be more
cautious than aggressive with his marketing plan. "I didn't want to be spending a
lot of money for just a few sales," Robertson says. Nice weather, however, has enabled his team to conduct estimates and
create sales already, and total numbers so
far are in-line with last year's.

Thomas Hofer, president of Spring-Green Lawn Care Corp., Plainfield, IL, says sales are even so far with last year, but he anticipates that his company will be more price sensitive this year. Jim

Campanella, owner of The Lawn Dawg, Hudson, NH, is offering an "economy" program this year, sensing that people may want to save a few dollars

Still, lawn care company owners aren't nearly as worried about the economy as they are about other things. Last year, weather did more damage to Campanella's business than the recession. "We had snow on the ground until April," he says. "Normal

weather patterns just don't seem to be the case anymore."

Also, rising chemical/fertilizer costs, health insurance and workers' compensation remain continual challenges. "Workers' comp has almost doubled for us this year, and I had almost zero incidents," LaScalea says. "But you're pooled in with other companies in the state, and big lawsuits pull up the cost too."



Jack Robertson has had a fine start in 2002.



Ken Budd, president of Budd Seed, and Dick Olson, president of Pro Seeds Marketing, recently presented Rutgers University a check for \$409,186.78 for royalty payments on the 2000 production of Rutgers-developed turfgrass varieties. Budd (far left) presents the royalty check to Dr. William Meyer, professor of turfgrass breeding, and Dr. Stacy Bonas, assistant professor of turfgrass breeding.

### **Industry braces for drought**

### NYC mayor to issue first drought warning since 1995

BY LYNNE BRAKEMAN & JASON STAHL

Government authorities in New York, Maryland and Pennsylvania are stepping up moves to cope with an impending drought emergency.

Pennsylvania's Department of Environmental Protection (DEP) held a live Webcast Jan. 28 to discuss current drought conditions, and what would be required under Pennsylvania's new drought regulations if the state moves into a drought emergency. DEP Secretary David E. Hess, says drought watches or warnings exist in 62 of Pennsylvania's 67 counties.

"It's early in the year for a drought to be declared so the impact might not be felt immediately. But as we go into the spring planting season it will have a drastic impact on Green Industry professionals and consumers," says Michele Corbin, public and government relations director for the Pennsylvania Landscape and Nursery Association.

Mandatory water limitations have seen set, but unlike 1999, Pennsylvania professionals aren't having to follow the same requirements as consumers. With newly seeded and sodded lawns, pros can water during regular business hours. Irrigation equipment can be tested 15 minutes per each zone. But Corbin says worries are far from over.

"Our concern still is that any municipality or water supplier could adopt stricter rules in the future if they want," she says.

New York City Mayor Michael
Bloomberg also called for a series of voluntary measures to cut water consumption, and warned he was close to issuing the city's first drought warning since 1995.
The New York Times reported in February that 20 of neighboring New Jersey's 21 counties are under drought warnings.
Drought warnings are also in effect in 21 counties in New York State, including Westchester, Putnam, Rockland, Sullivan and Dutchess.

"I'm worried," says Larry Wilson of Lawrence Landscape Design, Yonkers, NY. "It will either get better or worse in late March, early April, and whatever happens then will bear heavily on what restrictions come out."

Maryland authorities issued a drought warning for 15 counties in Central Maryland and the Eastern Shore. The state has seen a deficit of 4 to 9 in. of rainfall over the past six months, and state lawmakers are drafting proposals to require municipalities to draw up and implement water conservation plans.

### IN THE MONEY

A survey conducted by the Professional Grounds Management Society uncovered these salary facts about grounds superintendents/managers in 2001:

Avg. salary	\$21.34 per hr	
Avg. low	\$17.51 per hr	
Avg. high	\$24.96 per hr	
■ Hire rate	\$17.21 per hr	
Salary range	\$10.55-\$35 per hr	
Low range	\$9.80-\$26.28 per hr	
■ High range	\$12.90-\$35.00 per hr	
Avg. base salary	\$54,523	

### Correction

In the January 2002 issue of *Landscape Management*, a "Clippings" item stated that FMC Corporation had changed its name to FMC2. This is incorrect. The company has not changed its name. We apologize for the error.

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## industry almanac

### Try this to sell add-on services

**CANCUN, MEXICO** — Having difficulty selling add-on services to your basic maintenance or lawn application package? Try this idea that surfaced at the recent ALCA Executive Forum here.

Take a digital camera to some of your accounts, the ones where you see that there's a need for additional remedial services. Maybe there are areas on these properties where the turf is weak or thin. Or, perhaps there's a section where decorative pavers would solve a traffic problem, or a corner or entrance where seasonal color would make a huge difference.

Photograph these areas and, using landscape imaging software, enhance these images to show your clients the difference that your suggested improvements will make on their properties. Several landscape pros at the conference said they're increasing their revenues per property by using this upselling technique. This and many other ideas surfaced during three days of brainstorming by 160 of the best minds in the business. While moderator John E. Johnson, longtime marketing guru for Levi Straus, spent several mornings walking the owners through streamlined strategic planning, the real action erupted when they huddled and began swapping experiences.

After hours of huddling, the owners seemed to agree on the following points and discussed strategies to implement them:

- ▶ We'll respond quicker to our customers
- ➤ We'll expand our relationship with customers and suppliers
- ➤ We'll make use of the 30 to 50 annual opportunities to interact with clients
- ▶ We're in the beautification business
- ▶ We seek 100% customer satisfaction
- ▶ We sell the emotional experience of



ALCA Forum leaders (l. to r.) Rick Doesburg, CCLP, Gary Kinman, and Kurt Kluznik

a beautiful landscape

- ➤ We use the Internet and software to communicate and to inform our clients
- ➤ We're in the continuing education business
- ➤ We regularly survey our customers and prospects
- ➤ We'll discourage a "we and they" attitude in regards to our hourly workers, many of whom are Hispanic.

— Ron Hall

## People & companies

LESCO, Inc. named Jeffrey L. Rutherford chief financial officer.

Textron Golf, Turf &
Specialty Products named
Dennis Schweiger
executive vice president of
sales and marketing-Turf and
PLC, Joe Thompson vice president of sales-Turf, and Joe



Dennis Schweiger



Joe Thompson



Ralph Nicotera

LaFollette vice president of customer care-Turf and PLC. Ralph Nicotera was promoted to vice president of marketing and

product management-Turf and PLC.

Exmark appointed Bruce Cooper national sales manager and Jim Lysle territory manager for the northeast U.S.

**Growth Products** has added

**Gary Ackerson** to its staff of technical sales representatives.

The J.R. Simplot Co. named Lawrence S. Hlobik CEO-elect and Dr. David Rickard as product development specialist.

Aquatrols hired Mica Franklin as research agronomist. He will be engaged in product research and development.

The Toro Company appointed Thomas J. Tootle southeast area business

manager for its Irrigation Division.

Landscape Services, Las Vegas, NV, named Laura Stubbert business development manager.

**Briggs & Stratton** appointed **Richard Kolbe** vice president of information technology.

Rex Dixon, president of the Irrigation Association, formed The Rex Dixon
Consulting Group offering consulting services at 972/250-0861.

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## industry almanac

### Feuding neighbors spark blower fuss

FAR HILLS, NJ — A neighborhood flap over noise is causing this posh community of about 800 residents to consider legislation to ban leaf blower use outside of normal work hours.

Mayor Carol Torsilieri, who

owns a lawn maintenance company, said the law would be a "nightmare" to enforce, reported Gregory Zuckerman in the Feb. 15 issue of *The Wall* Street Journal.

A recent hearing on the leaf

blower ban, calling for fines as much as \$1,000 or 30 days in jail for violators, resulted from complaints directed at multimillionaire Dean O'Hare, chairman and CEO of Chubb Group, one of the biggest insurance companies in the world. Several neighbors living near his 20-acre estate have repeatedly

complained that he uses loud yard equipment at all hours of the day and night. Worth magazine lists Far Hills as one of "America's Richest Towns."

O'Hare called the complaints grossly exaggerated claimed he had his gardening equipment tested for noise levels, according to the WSJ article.

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WHAT'S NEW ON-LINE

- "Ask the Expert" section coming April 1 — review previously submitted questions and answers, and submit new ones!
- Features from the February issue of *LM*
- LM Week in Review
- The latest Green Industry news



### Surfin' Turf

### The lost link?

LandscapeLink's Web site isn't very fancy, but maybe that's why the dot com is still in business. The company, which calls itself the "on-line informational landscape network," prefers to put its money into the features on its site, which include vendor listings, a plant material search, contractor listings, and member Web site development. You can become a member for less than \$25 a month, says LandscapeLink, and join buyers and sellers in the Green Industry in both the wholesale and retail markets. Once you become a member, you can advertise specials in the "Specials" section. Even if you're not a member, check out LandscapeLink's newsletter, tips of the month, or job search.



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# Focus on your

Successful owners reveal how they satisfy their customers without straying from their competencies

BY GEORGE WITTERSCHEIN/CONTRIBUTING EDITOR

oes "all things to all people" inevitably mean "jack of all trades and master of none?"

Asking around among experienced Green Industry owners and managers, we got the impression that the answer might be yes.

It appears that many people in the industry understandably confuse "commitment to customer service" with an "absolute commitment to do any and everything the customer wants." This particular confusion is easy to fall into, according to Burton Sperber, founder and CEO of Environmental Industries, Inc., Calabasas, CA, one of the largest Green Industry companies in the United States.

"The 'no' decisions are much more difficult to get out of our mouths than the 'yes' decisions," Sperber observes from his vantage point of five decades' experience in the industry. "It's a lesson I learned early in my career — the hard way."

# strengths

#### Mistakes of focus

For years, Sperber focused on his strength: horticultural services. He started working for a locally owned landscape nursery while in high school, a business built around horticulture. When the owner eventually passed on, he bought the business for \$250. More than 50 years later, Environmental Industries is still in the same line of business, bringing in \$2.5 million in revenue a day.

"But that doesn't mean I didn't make mistakes of focus," Sperber says.

And how. Sperber remembers a person some decades ago telling him about a booming new sport in New Zealand and Australia called grass skiing.

"It seemed like a natural line of business for me to branch into, given my gardening focus and the availability of grassy hillsides in California," Sperber says.

Little did he know that grass skiing was not at all connected to the landscape/horticulture industry but rather was part of the entertainment or leisure activities industry.

Sperber says he learned the same lesson a second time when his company undertook the ownership and management of golf courses. "Having built, remodeled, and maintained 500 to 600 golf courses, we figured it was a natural extension of our core business, but it was not. Once again, we had strayed into the leisure activities industry. Having gotten our noses a little bloodied, we decided to get out of the ownership and management of golf courses, although we still build and maintain them."

### **Hunkering down**

It's not always easy to determine whether a new business opportunity represents a dangerous threat to your company's focus or a good thing. The analysis can be subtle, and often requires "out of the box" thinking. That was the experience of Mike Rorie, president of Groundmasters, Inc., a 20+ year old Cincinnati company providing mostly commercial landscape service, with revenues in the \$9 million range and about 140 employees at peak season.

In the past, Rorie's company had achieved success by providing higher priced landscape management services to Class A customers, whether industrial or commercial. But it wasn't enough, says Rorie. "We were looking for another line of work to expand into, and one very promising market we found was the homeowners' associations."

Rorie figured it was a no-brainer to tap this market, given that there were a lot of homeowncontinued on page 24

### Get employees into your focus too

Staying focused as a company also means making sure your employees grasp and participate in your company's focus on its core business and customers.

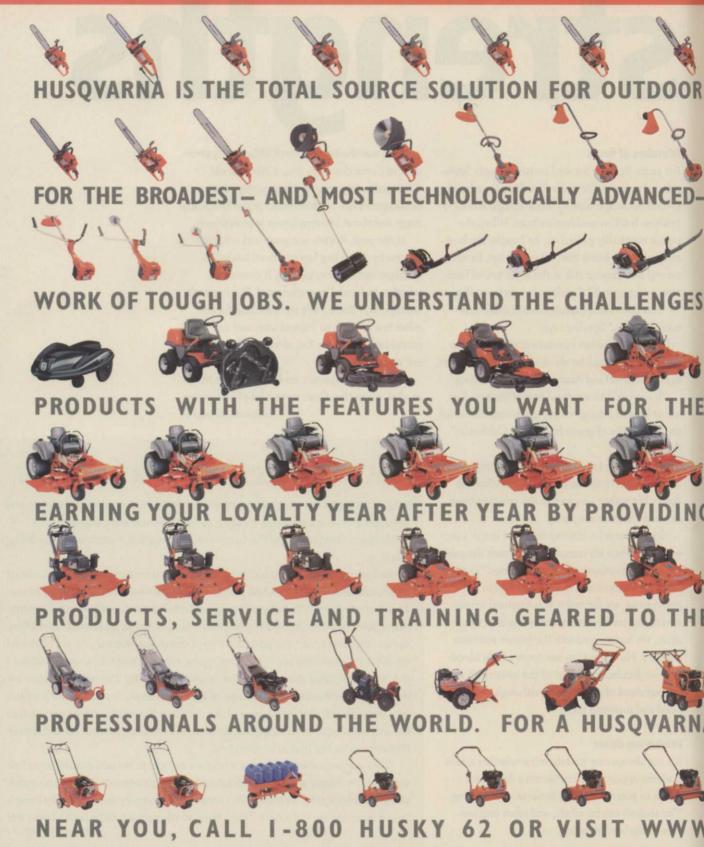
We found that several of the Green Industry people we interviewed are doing just that.

At Environmental Industries, Burton Sperber is proud of his company's efforts to educate and involve its 6,500 people in the supreme core competency of customer satisfaction. "We believe strongly in training our people, which is another major point of attraction in the workforce. People want to be trained. We believe our willingness to train our people is one of the major reasons why we have had no difficulty attracting applicants. During the recent boom times, we would read the reports of labor shortages in the landscape industry and smile, because we were not experiencing any shortage of applicants at all. Our company is where very good people end up because of the opportunities we have for learning and the scope and scale of the important projects we work on; and our reward system seems to excite the best in the industry.

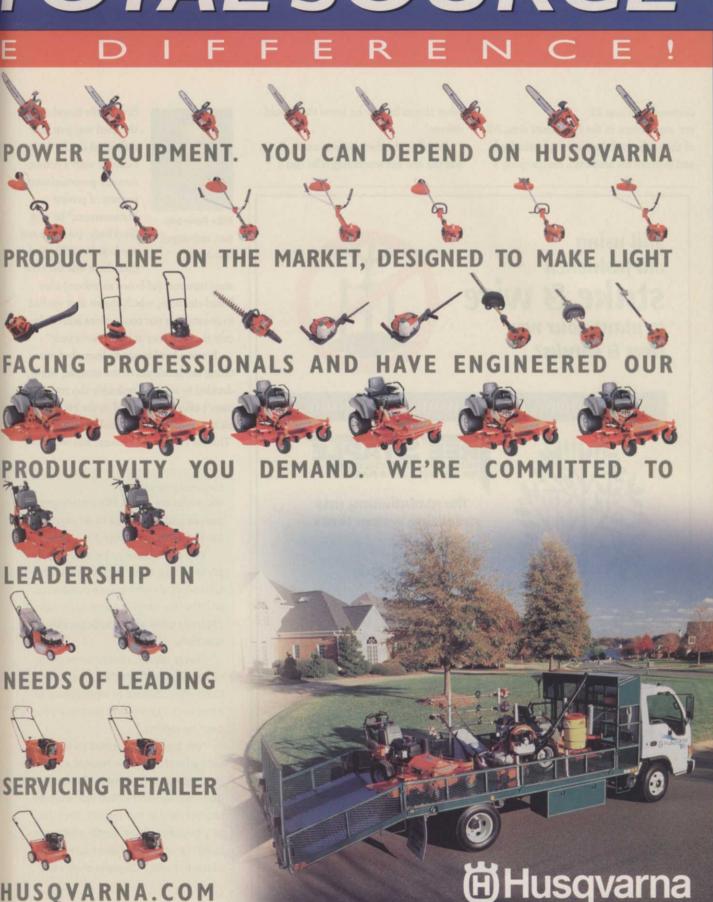
"And our customers understand that it's our job to try and outperform their expectations. Ninety percent of the education in our corporate training courses is about delighting the customer. Our corporate university does not even have a lawnmower for use in training. That's how we have grown to be such a large and continued on page 24

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continued from page 21 ers' associations in the Cincinnati area. All of them also had the same high standards and concern for aesthetics his company's

other clients had, so he knew they could deliver.

But after the decision was made, Rorie was the one left wondering if he had a



Mike Rorie battled, and stayed, with HOAs.

brain. "We found out the hard way just how difficult it can be to do business with a democratically governed community of private homeowners," he says. "Suddenly, you have not one boss but 200. And then there was the con-

stant turnover (of board members) after board elections, which meant that we had to re-establish our connections and reeducate the customer at least once a year."

It was a hard lesson to learn, but, mastering the subtleties of the analysis, Rorie decided to stay and redouble the company's efforts to succeed in the HOA niche. "We could have said to ourselves, "This isn't our core business, and we're tak-

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Circle 116

continued from page 21

successful company. We attract good people and train them to do what we do: satisfy the customer."

You don't have to be a large corporation like EII to take a similar attitude toward training your employees. At Ultimate Services Lawn Care, John Chiarella takes an attitude parallel to Sperber's.

"Every winter, I invite some of my old professors from the University of Connecticut School of Horticulture to come to our facility and teach our people," he reports.

"We also have decided to partner with a local college — Naugatuck Valley Community College — for accredited and non-accredited horticulture courses held at our facility. Their faculty people will be coming into our building where we have teaching facilities in place," Chiarella observes.

ing some hits here, so let's get out.' But we didn't. I listed out the reasons why we should stay in the HOA line of business, and they seemed compelling."

The reasons Rorie decided to stick it out were:

This was high-end maintenance work — his company's true core competency.

2 The dollar value of the contract was high — four to five times higher than the company's typical industrial or commercial maintenance contract per year.

The company had already achieved substantial market saturation in their geographic area with the existing commercial/industrial customers. There were not that many other places to go where they

## How to find your core business/customers

"Focus is one of the keys to becoming profitable in the landscape business" says Green Industry consultant Jim Paluch of Painesville, OH, who has worked with several of the landscape professionals interviewed for this story. "Take that one niche and become the best in it," he advises.

Paluch admits it's easier said than done. "A lot of factors work against a company's doing that. Most owner/operators hate to lose the revenue that the other, non-core business areas are bringing in. Often, these non-core businesses are not really making profits, but they are bringing in revenue, and the owner/operator is deceived into thinking that this line of activity is making money for him."

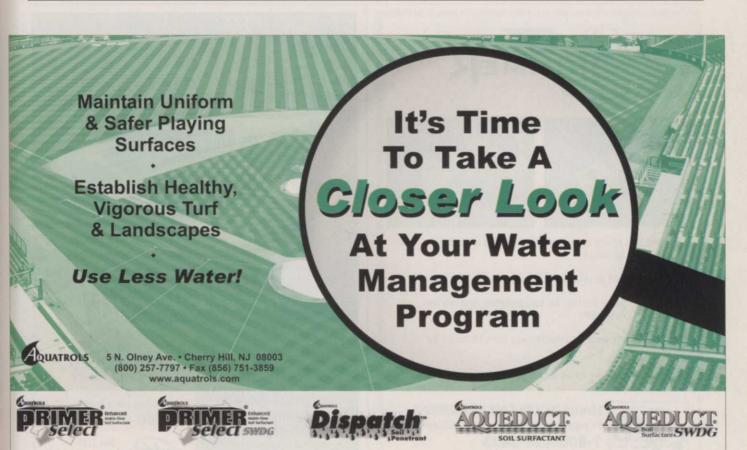
How do you decide what's core and what's not?

"Step back, list your clients, and take a hard look at where the profitable income is. And zero your attention in on that like a laser beam," Paluch says.

could find customers willing to pay for high-end landscape maintenance services.

So Groundmasters decided to hunker down and crack the HOA nut. To accomplish this, Rorie required his account managers to attend the associations' board meetings and participate as appropriate. This made possible a two-way information and education flow that helped overcome the difficulties inherent in working for a multi-person customer.

This strategy has paid off, Rorie reports. "We now have about 20 HOAs under contract and we expect to break \$1 million in



John Chiarella likes to stay focused, too, but he'll provide other non-core services in the name of customer satisfaction.

this segment soon. And the niche is still growing — HOAs are a vast market. Plus, as the people who live in HOAs are professionals and executives, winning them over is good for us — they can help us land contracts in the commercial marketplace."

#### Can you compete?

Another take on deciding what your core business is comes from John Chiarella, president/owner/founder of Ultimate Services Lawn Care in Wolcott, CT. Chiarella started out with the proverbial single push mower while still in high school in the upscale suburbs of central Connecticut. His business steadily grew to the point where today his revenues average between \$4 and \$5 million a year, and at peak his staff numbers 50 to 60.

His core business? "We specialize in landscape maintenance for high-end residential properties, some of which boast million dollar landscapes," he says.

A graduate of the University of Connecticut School of Horticulture, Chiarella likes to stick to plants, gardening, landscaping, and things green in general. But when his customers ask him, he's prepared to provide services he never studied in college. "We've done exotic gardens, grass tennis courts, putting greens and all kinds of other things for our customers on request," he says. "Once I even chased a bee out of a customer's porch on a Saturday night."

Is that lack of focus? Chiarella says no. "While we are sometimes willing to do unorthodox things for our customers," he ex-



plains, "we do not try to undertake new lines of business, even landscape-related business, in which we cannot compete." For example, he won't branch out into the sprinkler business or design/build because there are already a number of excellent contractors in that niche, "and I could never catch up to them in a reasonable time." In addition, those people often work with Chiarella as subcontractors, and he doesn't want to step on their toes.

"It's good focus to know who your friends are and to keep them," he says. LIM







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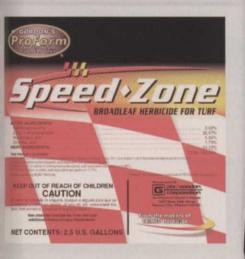


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New Frontier™ implements fill out an already comprehensive line-up of landscaping tools. Include landscape rakes, core aerators, pulverizers and more.





BY WAYNE VOLZ

he three most important words in real estate are location, location, location. In commercial mowing, they're production, production, production. There's no secret to running a successful landscape mowing/ maintenance operation - you mow and trim as much property as you can in the least amount of time that meets or exceeds your clients' expectations. You do it over and over again. Day after day. Week after week.

What was considered a good day's production from an operator and his commercial unit 20 years ago is child's play to the same operator on a ZT rider today. In fact,

few facets of landscape maintenance have changed as much as commercial mowing, in particular mowing equipment. Remember what was considered a state-of-the-art commercial mower just 10 years ago? Five years ago?

#### **Bigger and faster**

Today's efficiency-conscious landscape business owner wants mowers that are bigger, faster, more maneuverable and, to some extent, more comfortable.

One New England operator is now mowing his large commercial properties with a Deere fairway unit with a 11-ft.-wide cut. The batwing design allows the operator

continued on page 32

## Minimize Mowing & Clippings with Controlled-Release Nitrogen

Richard Guzman realized there was something missing in home lawn care services that golf courses had always provided: topdressing. So he started his own business in 1998 offering deep core aeration and topdressing to homeowners and sport fields in the Atlanta area.

"Traditionally, lawn care companies just mow, fertilize and water," says Guzman, owner of Sandman Topdressing and Aerating, Inc. of Hoschton, Georgia. "When you add deep core aeration plus topdressing, all of a sudden the lawn looks phenomenally better. Our topdressing is mostly sand with about 10% organic compost."

While Sandman's customers enjoy their thicker, plusher lawns, they often complained that the grass color faded a month or so after topdressing. "Our Southern turfgrasses require more nitrogen than bluegrass and other northern turf," explains Guzman. "We knew we could put down straight nitrogen and get green grass, but didn't want to bring on a surge of growth and get excessive clippings and added thatch."

A year ago, Sandman was searching for the best fertilization solution for its patented Sandman Application System® when the company discovered Nitroform®

Controlled Release Nitrogen from Nu-Gro Technologies, Inc. Nitroform contains more than two-thirds water insoluble nitrogen, providing extended nitrogen release for 8–12 months. Unlike other nitrogen sources, Nitroform has a 1:1 ratio of nitrogen to carbon. When microorganisms break down the nitrogen in Nitroform, carbon is used as an energy source for microbes. An increased microorganism population results in healthier turfgrass.

Cut More Leaf, Less Stem... "Nitroform constantly releases small amounts of nitrogen so the turf stays green and never goes hungry," Guzman notes. "Once we started applying Nitroform, our customers' lawns and sport fields were near perfect all summer long. We found people were mowing less often – cutting more leaf and less stem when mowing. Nitroform is transforming our business dramatically for our customers and franchise operations."

Sandman continually educates its customers about the benefits of controlled-release nitrogen. They tell them that excess clippings and surges of growth are real negatives. "We promote returning the clippings to the soil," says Guzman. "By removing the clippings, you're losing 30% of your fertilization. Just mowing and leaving clippings where they lay is the best thing for the turf. By promoting controlled growth, you mow less often, compared to every other day with fast–growing lawns."

Sandman crews topdress throughout the growing season, from mid-March through the end of October. They first deep core aerate, then apply Nitroform at the rate of 200 to 300 pounds per acre, then topdress and drag the material into the soil with Sandman's patented drag-mat screeds.

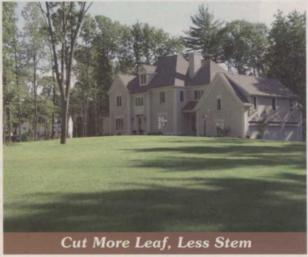
"Topdressing eliminates thatch, helps percolation, increases the efficiency of fertilizer intake, reduces moisture requirements and develops a healthier root zone," explains Guzman. "Nitroform encourages organic matter and promotes controlled leaf growth. Our customers notice the difference two months and beyond because there's no drop off in feeding, no surge of growth and fewer clippings."

Other Nu-Gro Nitrogen Products... Other controlled-release nitrogen sources available from Nu-Gro Technologies include Organiform® and Nutralene®.

Organiform provides intermediate nitrogen release lasting 16 to 24 weeks. It contains 55% water-insoluble nitrogen, allowing sustained release when plants need it most. Organiform builds up beneficial soil bacteria, even in soils naturally low in microorganisms.

Nutralene provides nitrogen nutrition lasting from 12-16 weeks. It contains 14.5% water insoluble nitrogen, and releases nitrogen both by hydrolysis and through microbial activity. This dual-release of Nutralene provides a two-fold advantage: hydrolysis releases nitrogen quickly, giving plants a boost at the beginning of the growing season, then microbial activity releases nitrogen more slowly through the rest of the season.

"Many homeowners spend time and money mowing much more often than necessary," says Guzman. "They can fill up 20 bags of clippings from a 5,000 square-foot lawn. They spend time filling up the bags and then have to dispose of them, too. By mowing less, they save time, use less fuel and put less wear and tear on their equipment. The best part is they also have a more beautiful, deep green lawn."





#### MAINTENANCE

continued from page 30 to swing up either of the side cutting units (or both) with a push of a button. He hardly slows even when approaching a tree or other obstacle.

Maybe you don't mow properties that large, but you get the point. Production is one of the biggest keys to profitable mowing.

### Is the price right?

An equally big piece of the mowing profit puzzle is pricing. If a company overprices a property, it risks losing the job to a competitor. But if that same company underprices the job, it can find itself doing a lot of work for little return.

A landscape company that doesn't know why it charges what it charges is in for trouble. A "guess" bidding process may



seem to work for awhile, but as your company grows, the chances that process will fail greatly increase.

To succeed in commercial mowing, you have to accurately calculate your cost of op-

eration. McDonald's knows exactly what it costs to get an order from them to you.
Why should your business be any different?

Don't charge "x" number of dollars per manhour because your competition is charging "x" number of dollars per manhour — know why you charge what you charge. The success of your business is more important to you than the success of your competitor's business, isn't it?

## Boost production, hike your profits

When your crews are maintaining a property — mowing, trimming, etc. — they're serving customers and contributing to your company's financial well-being. Your task as a company owner or field supervisor is to maximize this time and minimize the time when their not actually servicing properties.

To compete in today's landscape maintenance/mowing market, you must establish systems to make your crews as efficient as possible, says longtime industry consultant Jack Mattingly. He says that even small increases in employee productivity, measured over the course of a season, can significantly improve a company's bottom line. He offers these suggestions for boosting crew efficiency:

- Have crew members fuel and load their service vehicles the night before.
- Park service vehicles at your shop so you don't need to be moved around the next morning. They should be ready to roll when the crews are.
- Equip walk-behind mowers with a stand-on sulky like a Velkey or Jungle Wheels. It will dramatically increase production.
- Consider having a mobile snack service (what Mattingly refers to as a "roach coach") show up at your shop early each work day for coffee, donuts, etc. Make sure the vendor packs up before your crews are scheduled to leave the yard.
- Dismiss marginal employees and non-performing employees. The sooner you do this, the better.

— Ron Hall

#### Don't second-guess

I found myself second-guessing my bids a lot. I knew other companies were bidding on the same jobs we were, and knew they were bidding less than we were. I caught myself thinking they were right and I needed to adjust my bid. Unfortunately, we were trying to bid against other companies that had no idea why they charged what they charged.

I finally realized I was on the same path of destruction as them. When we established our current bidding strategies, we began bidding with confidence. We calculated our cost per hour of operation and knew what we needed to charge. By knowing our cost, it made the service easier to sell.

How did we develop our bidding system? We put together a system that accurately

continued on page 35

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- Increase photosynthesis

UHS Signature Brand Fertilizers with Prospect\* Plus have been impregnated with a proprietary nutrient solution that has shown a remarkable ability to improve vigor, quality and stress tolerance in turf, trees and ornamentals. The patented additive in Prospect\* Plus has been tested extensively on many crops, including turf, in laboratory, greenhouse and field studies in the U.S. and several other countries.

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Ohio Turfgrass Foundation Research and Educational Center - 2000

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Fertilizer (46-0-0) + Prospect Plus	0.014 lb. N/1000 sq. ft. + 48 oz./acre	77.00

Seeded on August 4, 2000 with G-2 creeping bentgrass at a rate of 2 lbs. per 1000 sq. ft. Density measurements were based on % cover taken visually on 10/4 (8 weeks after treatment)

Study Results: "... a significant increase in creeping bentgrass establishment two months after seeding with the application of fertilizer and Prospect Plus compared to the untreated control." A 22% improvement over check and more than a 12% increase over fertilizer alone!

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continued from page 32 measured the cost of each job. This included:

- the equipment needed,
- the hourly production of the equipment,
- the mowing time required,
- the trimming time required,
- the blowing time required,
- the level of difficulty of the job,
- travel time
- any contingencies and
- overhead.

The biggest factor in determining a bid is the total number of man-hours to complete the job.

Also, knowing the production possibilities of each piece of equipment your company uses is critical to the success of estimating the man-hours necessary to mow a given area. The formula I use is simple and easy to remember: ground speed (mph of the unit) times width of cut (inches) divided by 120 (assuming 80% productivity

from the operator) equals production capability per hour of operation. As an example, let's consider a mower with a ground speed of 4 mph and a 48-in cutting width. Multiply the two factors and divide by 120 (assuming 80% productivity allowing for overlap, turns and terrain differ-

ences) for a production rate of 1.6 acres per hour. (For more info, See "Best Practices" page 92.)

Calculate the trimming and blowing time by taking a given percentage for each. We've found you can add between 25% to 35% of the mowing time to your bid to cover the time necessary for weed-eating. Increase or decrease these amounts depending on conditions.

The sharpest cut of all

It's not every day at our editorial office that we get a package with a mower blade in it. In fact, we'd never gotten one until a long, thin package arrived from Janik Technologies Corp. last month.

This blade was unusual because it had razor-sharp metal inserts on its two cutting edges. I held up a sheet of paper and managing editor Jason Stahl sliced it easily.

Our interest piqued, we contacted the blade's co-inventor, Jim Blarek. He says he and Dave Nemke came up with the idea of the metal inserts ("They can be tapped onto the blade in seconds," he says) because he was sick of sharpening the blade on his mower. Also, he wasn't satisfied with the cut his mower gave his one-acre property in Hatley, WI.

Working off the concept of a utility knife, Blarek and Nemke designed the inserts to be tough, sharp and replaceable. The two and Randy Janikowski of Janik Technologies, took prototypes to the 2001 Mid-Am Horticultural Trade Show in Chicago and were mobbed by landscape companies demanding to know where they could get the blades, says Blarek. A month later, in February 2001, Blarek and Nemke got a patent for his unique blade design.

"New mowers have cup holders, zero-turn radiuses, cruise control and just about every other option, but nobody has ever really changed the object that

does the work — the blade," says Blarek. "Not until now anyway."

Blarek says several mower manufacturers have expressed interest in equipping mowers with the blades, and discussions with a blade manufacturer are ongoing.

Field testing has shown that the blades, even when dull, are sharper than a recently sharpened traditional blade, says Blarek. He claims they give a cleaner and faster cut than OEM blades. They also save fuel and wear on mowers. Best of all,

you don't need to remove the blades from the mower to replace the sharp edges.

When will these blades become available to landscapers? That's up to the industry and its suppliers, says Blarek. "Every industry has its own way of doing things and it's always hard to accept change."

For more information about the blade, contact Janikowski at rjanik1@msn.com or 715-446-2316.

- Ron Hall

Mower blade with replaceable supersharp cutting edges

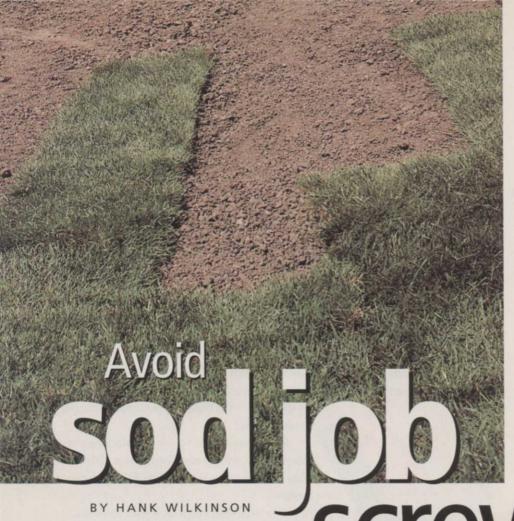
Take between 4% and 8% of your mowing time and use it as the blowing time for most residential jobs. This has been reliable for our service through the years.

It still amazes me to see how many failures there are due to improper bidding. We often think nothing of spending thousands of dollars on trucks, trailers and equipment, but don't want to spend

money for business education.

All of us must consistently look for ways to become more efficient and better managers. I have yet to meet anyone across the country who has told me, "I can't wait until the day I go out of business." **LM** 

— The author is owner of Wayne's Lawn Service, Inc., Louisville, and offers consulting services through Profits Unlimited. He can be reached at 800/845-0499.



... or, 10 ways
to not get paid
for your next
turf installation
project

# screwups

od is a perishable product. It can die, but long before it dies it can be stressed, stunted or forced into dormancy. It contains more than just grass plants and soil. In fact, the soil contains millions of microorganisms, small animals and plants, all of which must be nurtured to maintain a beautiful and healthy lawn.

A number of important issues are worth keeping in mind to ensure the new sod will perform. Failure to recognize these practices could result in failure of the sod and the resulting loss of your income. Here are my top 10 ways to botch a lawn installation job, not to mention harming your reputation.

1 Underestimate the time and planning it takes to install sod. Preparation is required to ensure that you and the landscape

are ready to receive sod. Overestimating how many yards of sod you or your crew can install in a day can cost you big money. Sod is perishable and can die even before you unroll it. Never make the sod wait to be installed.

2 Buy poor quality sod. If you start with poor quality sod (weeds, weed seeds, disease or insect damage, old, thatchy, poor variety, etc.), you'll wind up with poor quality lawns and unhappy customers. Poor quality sod will cost you money in terms of handling, causing you a lot of extra trimming and leaving you with unwanted scraps. Inspect and buy only top quality sod.

Don't be ready to receive the sod delivery. When sod is ordered, it's usually cut late in the afternoon the day before or very early the morning of the delivery. This guarantees that you and your customer get the

continued on page 38

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Prior to installing sod, remove any rocks and debris from the soil.

continued from page 36

freshest, coolest sod. Remember, the microorganisms that live in the sod respire, so they're always generating heat - like you when you carry rolls of sod. In addition, sod cools itself by evaporation (like sweating). However, once sod is harvested and rolled up for delivery, it cannot cool itself nor dissipate the heat from the microbes. It can reach a temperature of over 130° F in 24 to 48 hours if left rolled up. Also, if you're not ready to receive the sod, you'll infuriate truck drivers who have to wait, and the delivery person won't be able to place the sod where you can use it efficiently. In short, you'll have to handle the sod more, which will cost you money. Don't order the sod until you're sure you can install it.

Don't prepare the soil properly. Sod starts to form new roots as soon as it's harvested. These roots need to find porous, moist, cool soil. Till the soil, remove any debris and rocks, and make sure the soil doesn't contain too much (<30%) clay. Have the soil tested if you suspect it has too much clay. When you lay good sod on poor soil, the sod won't root, the density of the turf declines, and the grass desiccates in the summer. Further, poor soil preparation will require more water, more fertilizer and more explanation, all of which will

cost you more money. Make sure your soil has a good texture. If needed, add organic matter and good topsoil and

till it into the top 3 to 6 inches of the soil.

Don't add water to cool the soil. Water cools the ground and helps the sod to root. The sod you're installing just had about 80% of its roots cut off and therefore can't absorb water efficiently. Keep the sod and the soil below it moist and cool to prevent desiccation and root "stinging," or death caused by dry, hot soil. The soil surface in the midwest can reach 130° F on a bright, sunny day. If the sod gets hot while on the pallet and then is installed onto hot soil, it will be heat stressed and may go dormant (off-color green or brown, and no new root growth). Thoroughly wet the soil to about three inches deep between 24 to 48 hours before you install the sod. By the time you install the sod, the soil surface will be dry enough to work on. Once the sod is unrolled, the moisture in the soil will migrate up to meet the sod. You won't have to add as much water after installation, and the sod won't go

#### Before you buy sod...

- Seek out a reputable sod producer
- Ask what varieties of seed make up the sod
- Ask how old it is (<24 months is best)
- Visit the sod farm and inspect the fields with the producer
- Check the thatch layer: it should be less than <5/8 in. thick
- Inspect the sod when it arrives: it should be moist, cool and neatly cut

-HW

Do a sloppy installation. If you've left big seams or had to patch a lot of little holes because you didn't trim correctly, your customer will be unhappy. Pay attention to details. Stay off the soil as much as possible before you install the sod. Once the sod is rolled out, work on it only when necessary to fit and trim it, then stay off it. Remove any air pockets beneath the sod: they'll cause it to dry and turn brown. Use a riding roller to ensure contact between the sod and the soil. Don't use a hand roller: your feet will damage the sod as you struggle with the roller. Finally, as you roll out the sod, give it a good soak. This will prevent shrinking and heat stress.

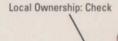
Don't tell the customer how to manage the sod. Homeowners, although well-intentioned, don't have a clue as to how to properly establish turf. If you, the installer, leave the sod care entirely in the homeowner's hands, expect callbacks and complaints. In general, people water lawns too frequently and don't apply enough

continued on page 40

dormant.



Equipment Knowledge: Check





Mechanical Expertise: Check

Professional Advice: Check

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Properly trimmed sod fits neatly together and doesn't leave big seams or lots of little holes. Patching takes time and the job doesn't look as neat.

## The **real** reasons you won't get paid

continued from page 38 water. Another problem is improper mowing. After installing the sod, leave a written description of how to care for it. Review this with the customer. If you need a plan like this, visit the Midwest Sod Council's Web page (www.midwestsodcouncil.com) for details.

Leave the on-going mowing, fertilizing and watering up to the customer. Your customers want a beautiful lawn; otherwise, you wouldn't be installing one. They also want to help care for the sod. However, most customers are busy and not knowledgeable about taking care of a new lawn. The least you should do is instruct the customer on proper management for the turf: when to mow, fertilize, and water their lawn. They must realize that the first few weeks after installing sod are critical to proper establishment.

**9** Don't tell the customer when they can get on the grass. Customers should know that grass is not that fragile after it's installed, but they need to use some caution. Sod can be walked on by humans and animals immediately after it's installed. However, caution your customer to avoid

After you graded the soil, you forgot to come back and put the sod down.

You gave the sod company a delivery address in another town.

You bought sod from the same guy that sells velvet Elvis pictures along Rt. 66.

You put most of the sod greenside up, but not all of it.

It was too hot to water the sod, so you did it the next day.

■ You gave the customer's little

poodle a whack for "watering" on the new sod.

- The last thing you did on the job was paint the grass green.
- You tried to explain why summer patch developed in the sod and got caught BS-ing!
- You let the customer's kids help, and then blamed the sloppy job and overtime on them.

SOD

You just read this article and have no idea what the author was talking about.

-HW

any activities that cause lateral movement and shearing for about 4 to 6 weeks. Tell the customer what they can and can't do on the grass, and explain why.

10 Don't check up on the sod's progress. This may take both diplomacy and salesmanship, but try to get the customer to allow you to perform post-installation services. In most cases, you don't

want to leave the success of your efforts and professional reputation in the customer's hands. Prepare a schedule and list of how you'll inspect the lawn during the critical establishment period (3 to 6 weeks).

— The author is associate professor of turgrass science at the University of Illinois and a popular speaker at regional and national turfgrass conferences.



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### LM PRESENTS award-winning landscape management

#### Property at a glance

Location: Tampa, FL

Staff: One Source Landscape &

**Golf Services** 

Category: Amusement or Theme Park

Total budget: N/A

Year site built: 1959

Acres of turf: 125

Acres of woody ornamentals: 104

Acres of display beds: 3

Total paved area: N/A

Total man-hours/week: 3.000

#### Maintenance challenges

- ► High profile/high attendance park
- ► Strict ride/animal safety restrictions
- ► Time/visibility/noise restrictions

#### Project checklist

Completed in last two years:

- ► Elephant display renovation
- North veldt renovation
- ► Ewasi roller coaster landscape

#### On the job

> 75 full-time staff, 5 licensed pesticide applicators

## **Busch Gardens**

2001 PGMS Grand Award Winner for **Amusement or Theme Park** 

scape & Golf Services to keep the popular theme park looking perfect.

Aside from a constant parade of foot traffic of visitors, the grounds crew maintains several different types of landscaped themed areas, including jungles, deserts, savannahs, topiary gardens and big beds of color. If the Edge of Africa landscapes appear a little wild and over-

It's one thing to have to deal with an awhile, but can you imagine fighting off crocodiles in your daily landscape maintenance chores? Workers have to be suspended in safety harnesses to access the jagged walls of the Nile crocodile pool grasses, firecracker plants and purslane.

Workers meticulously time applications of fertilizers and other chemicals for peak effectiveness and also to build in an extra measure of safety for employees and park guests.



Workers time applications of fertilizer and chemicals for peak effectiveness and safety.

Irrigation specialists have their own challenges in this account. They regularly perform zone checks to make sure

wells, 120 clocks and over 1,000 zones on the property.

Editors' note: Landscape Management is the exclusive sponsor of the Green Star Professional Grounds Management Awards

for outstanding management of residential, commercial and institutional landscapes. The 2002 winners will be named at the annual meeting of the Professional Grounds Management Society in November. For more information on the 2001 Awards, contact PGMS at:

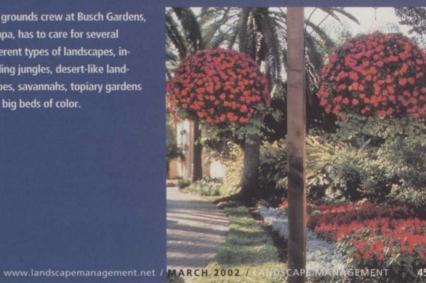
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The grounds crew at Busch Gardens, Tampa, has to care for several different types of landscapes, including jungles, desert-like landscapes, savannahs, topiary gardens and big beds of color.





# Infields to build reputations

Secrets to great infield soils from a former Major Leaguer and a master of the art

BY PAUL ZWASKA

Editor's note: This article is the second in a series of three that will discuss the basics of infield care.

he soil type you use on your infields is vital to its playability and, ultimately, to your reputation as a grounds professional.

It's your responsibility to know and select the best soils for your baseball or softball infields.

That's where you prove your worth.

Don't rely upon a supplier to make the decision for you. Most suppliers don't understand the special characteristics needed for a superior infield surface. The soils they often recommend are too sandy and unstable. They won't be able to meet the six basic criteria you should always strive for in building, repairing or maintaining a skin infield: traction, playability, resiliency, surface drainage, appearance and consistency.

Select a soil you can compact for stability but fractionate with moderate agitation when using an Aero-vator or greens aerator. This will crack the soil open so it will accept water more easily but won't introduce too much pore space, which can deteriorate the base mix's firmness.

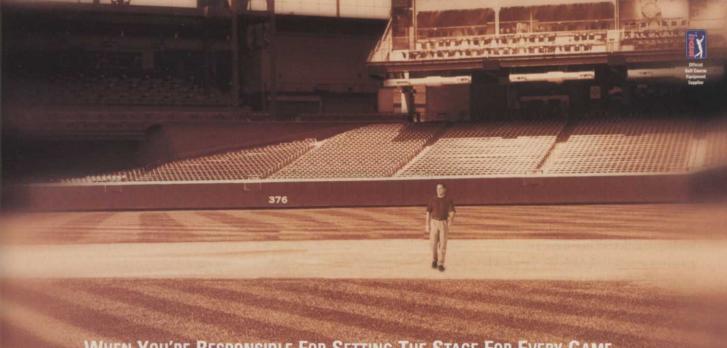
Don't overdo it. Rototilling introduces large



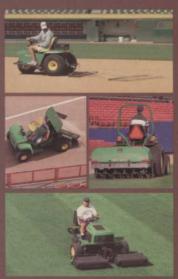
Former Baltimore O's grounds pro Paul Zwaska says that 75% of baseball or softball action happens on dirt.

amounts of pore space into a soil. (However, rototilling is acceptable to thoroughly mix amendments or large amounts of soil to the existing skin when it needs it.)

continued on page 48



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Circle No. 129

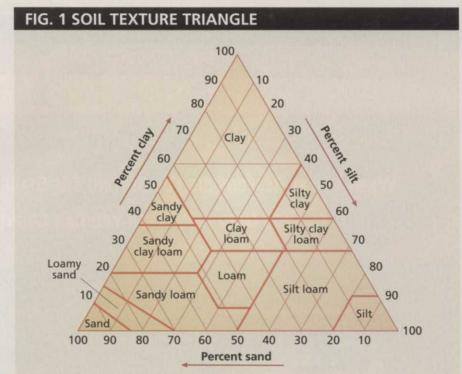


continued from page 46

Soils are typically classified by the percentages of soil sand, silt and clay in them. You have to choose a soil with the right binding qualities because there's no turfgrass root mass to help stabilize the infield surface. The soil needs to bind enough to permit adequate traction, yet it can't compact so much that water won't infiltrate it.

The two basic characteristics that influence how well a soil will compact and bind up are:

- 1. The percentage of clay in the mix. The combination of clay and water is the glue that holds soil particles together. Too much clay in the soil mix may make it too hard and difficult to manage.
- 2. The shape of the sand in the mix. Sand grains in a good infield mix should have an angular to sub-rounded surface texture and a relatively non-spherical shape. Sands that are somewhat angular or rough on the surface will lock up better mechanically and thereby help to firm up and stabilize the soil. Sands that have a rounded or smooth surface will tend to resist firming up due to their lack of surface



texture. Imagine trying to compact a bowl of ball bearings with your fist. Sand particles that are too round show the same characteristics and aren't suitable for an ex-

cellent infield.

Soils vary widely throughout the country, but there are general recommendations that can be used as guidelines when choosing an infield skin base soil. Use them as the starting point to formulate the specifications for your mix according to available soil supplies, climate and field conditions.

The area shaded in the soil texture triangle shown in Fig. 1 indicates an infield skin's optimum range of soils. Other soils outside of this shaded area (mainly just to the right) can provide the qualities needed for an infield skin. They will, how-

ever, require the addition of soil amendments in order to acquire the desired traits.

When ordering infield soil material from a supplier, make sure the soil is shredded and thoroughly screened to remove any trash such as rocks, clumps and twigs. Double screening is always a good idea, if possible. It might even be worth purchasing your own small soil screening machine.

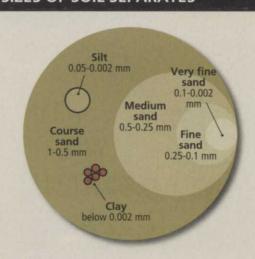
When your infield mix has been delivered, check the quality of the material before it's unloaded. Make sure it's clean.

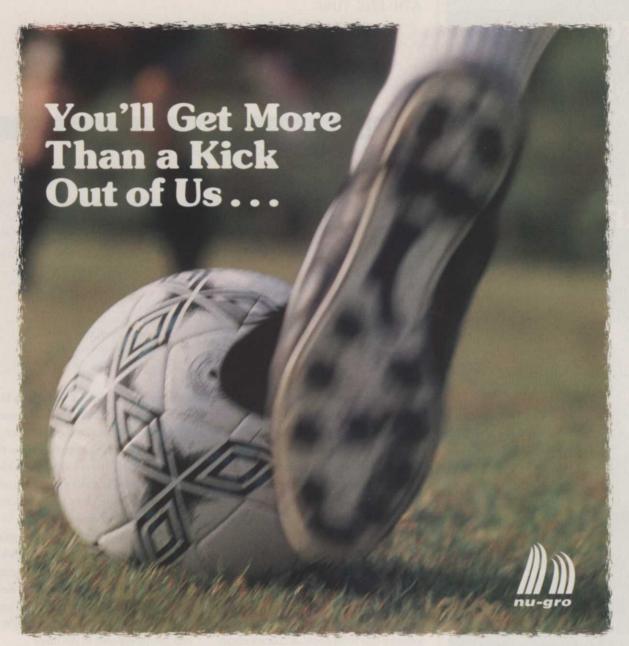
Never hesitate to refuse a load of soil if the quality appears questionable. Once you get a bad load of soil on your infield, you'll be stuck living with it until the day you remove it. Or management removes you.

If you're unhappy with your existing infield base soil, take a sample and send it to a private soil testing lab or local county extension office for a soil particle size analysis.

continued on page 50

### FIG. 2 COMPARING THE RELATIVE SIZES OF SOIL SEPARATES





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ATHLETIC TURF

INFIELD SKIN BASE SOIL GUIDELINES			
Soil separate	Recommended % range of soil separate	Comments	
Sand	50-70%	Higher amounts=>soil mobility=>maintenance. Avoid sands with surfaces that are severely angular or rounded as well as highly spherical.	
Silt	15%-35%	Stay with lower end of recommended values to avoid dusty infields. High levels of silt will increase the slickness of an infield skin when it is wet.	
Clay	15%-35%	Infield soils with clay contents higher than 25% may require the addition of soil amendments for proper soil consistency.	

continued from page 48

This test will give you the percentages of sand, silt and clay as well as the sand shape and sand particle size distribution. You can't improve on an infield soil unless you know what's already out there. Once you have your results, you can plan a course of action for improving or replacing that soil.

#### Infield skin topdressings

Four basic types of infield skin topdressings exist on the market today — calcined clays, vitrified clays, crushed aggregates and diatomaceous earth. Each has its place in the industry due to its physical characteristics and/or availability in certain regions of the country.

Calcined clays. Calcined clays have been the standard in the industry for several decades. They're created from naturally occurring clays mined from the earth and processed in a rotary kiln at temperatures anywhere between 1,200°F to 1,600°F.

The intense heat creates a solid, stable particle that absorbs large quantities of moisture but doesn't change the clay's physical characteristics. Calcined clays have an enormous number of micropores, which create strong capillary action that can wick up water at tremendous speed.

Dark-colored calcined clays (grayish black) are typically fired under the lowest temperatures to help maintain the dark color. The hotter the clay is calcined, the redder the material gets. Other colors are available via a dying process, but this process can adversely affect these clays' capillary action and water-holding capacity.

Calcined clays come in several grade sizes for use as soil amendments, infield topdressings or drying agents. They can be purchased in bag or bulk form, but the material should be kept under cover to protect it from rain until it's used. They're susceptible (compared to the other topdressings) to being distributed across infield skins by strong winds or heavy rain.

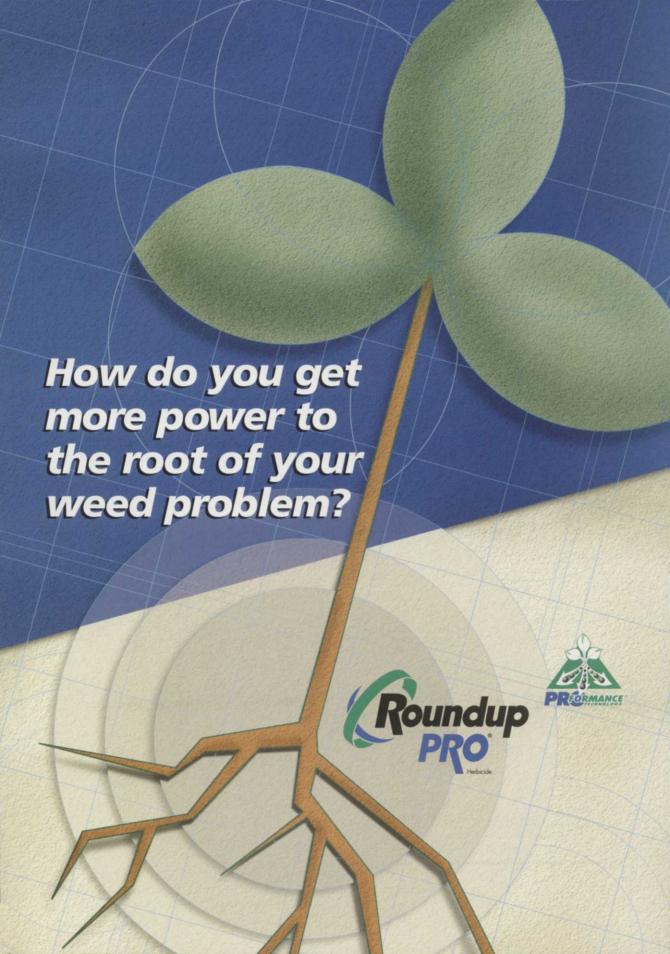
Vitrified clays. Vitrified clays, also known as porous ceramics, have only been around for a little more than a decade, but they've rapidly become popular with groundskeepers at all levels of play.

They're created using naturally-occurring expansive clays that are processed through a rotary kiln and heated to 2,000°F.

The extremely high heat causes the micropores in the raw material to rapidly expand, thus creating larger macropores. This transformation destroys the natural capil-

continued on page 55

novozyme



#### The proof is in the leaf.'

Monsanto scientists used scanningelectron microscopy to photograph the effects of weeds sprayed with Roundup PRO and an imitator. Taken just one hour after application, these images clearly show more formulation in the leaf sprayed with Roundup PRO.

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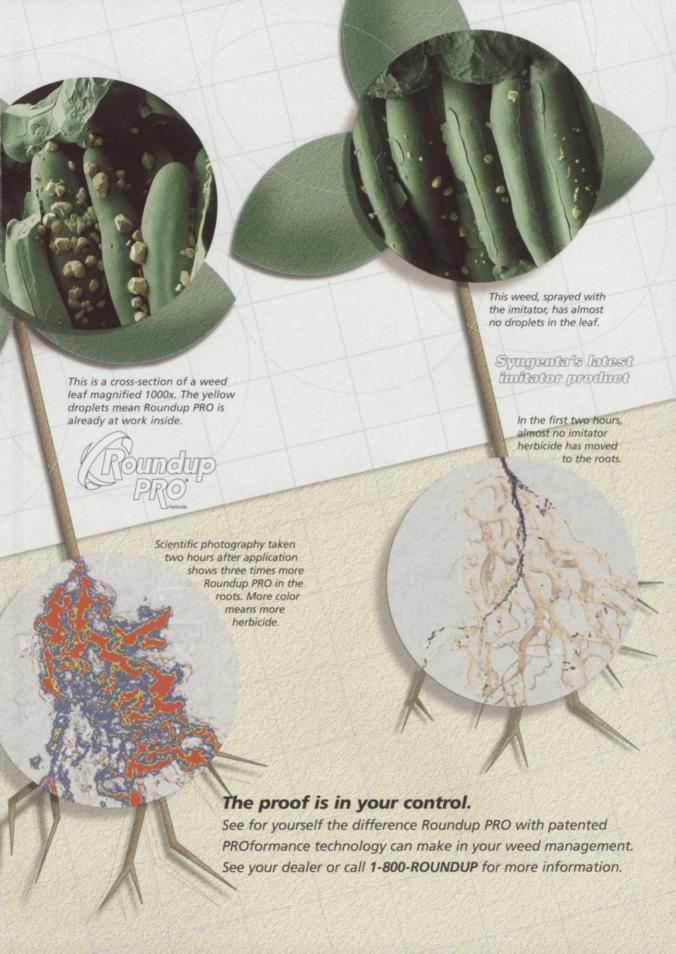
In the first two hours, it delivers three times more power to the roots than Syngenta's latest imitator product.





#### The proof is in the roots.'

Scientists also used autoradiography to photograph and measure the amount of herbicide in the roots two hours after application. Time after time, at least three times more herbicide showed up in the weeds sprayed with Roundup PRO. With the imitator, barely any herbicide has moved to the roots.



#### Free video shows science in action.

See PROformance technology at work in a free, five-minute video. Scientists Dr. Tracey Reynolds and Dr. Jimmy Liu demonstrate the autoradiography and cryo-SEM techniques used to compare Roundup PRO with an imitator on two identical weeds.

Call 1-800-ROUNDUP and ask for your free Roundup PRO video today!

Always read and follow label directions. Test conducted with MON 77360, EPA Reg #524-475 with comparison to Syngenta product carrying EPA Reg. #10182-449. 1. Test methodology. In scanning-electron microscopy, Monsanto scientists identified penetrated formulations of both Roundup PRO and Touchdown Pro in the mesophyli cell layer. These micrographs support the evidence that formulations containing Monsanto's patented PROformance technology rapidly penetrate the leaf surface. 2. Test methodology. Radiolabeled formulations were applied at equal acid-equivalent rates. Radioactivity was visualized by autoradiography following a simulated rain event two hours after application. Monsanto laboratory tests, 2001. Roundup', Roundup PRO' and PROformance<sup>TM</sup> are trademarks of Monsanto Technology LLC. [12748] to 10/01.]. ©2001 Monsanto Company RUPRO-12748

continued from page 50 lary action and moisture-holding capacity of the clay, which is why vitrified clays absorb much less moisture at a slower rate than calcined clays. They're typically reddish-orange in color but can be customized to a specific color if desired.

Vitrified clay is usually sold in one or two grade sizes, and can be purchased in bag or bulk form. It doesn't have to be stored under cover since it doesn't absorb a tremendous amount of moisture. In addition, due to the material's heavy nature, it has a low susceptibility to being transported by strong winds and heavy rains.

#### Crushed aggregates.

Crushed aggregates have been used over the decades on ballfields because they're cheap and readily available in most locations. They're stone products that have been crushed to fine grades. This category also includes the use of crushed fired brick as an infield topdressing alternative. The problem with crushed aggregates is that all stone products crush into very sharp, jagged or angular pieces. Therefore, care must be taken to make sure that any of these materials used on fields are ground down fine enough so that the particles are not too abrasive to players' bodies.

Generally, crushed aggregates absorb the least amount of moisture of all infield top-dressings. They're sold in bulk

Topdressing material	Transportability by wind & rain
Diatomaceaous earth	
Calcined clay	
Vitrified clays	
Crushed aggregates	

and come in a variety of colors. Like the vitrified clays, crushed aggregates have a heavy bulk density and thus a low susceptibility to being transported off of an infield skin by strong winds or heavy rains. Crushed aggregate material can be found at most local or regional quarries. Not all quarries, however, have the ability to crush these materials down fine enough to make it safe for use on ballfields.

Diatomaceous earth. Diatomaceous earth is the newest material to be used as a topdressing. It's made of sedimentary rock composed of fossilized skeletal remains of diatoms. It's crushed and calcined to remove organic contaminants but retains a large quantity of micropores that make it very absorbent. The natural color of this material is white due to the fact that 86% to 94% of the product is made up of silica. Usually it's dyed a pinkish-red color, but quite frequently the coloring wears off and eventually creates a glare problem for infielders. It's available in two grade sizes and is sold in bags but may be

Topdressing material	Water absorbing capacity
Diatomaceaous earth	high
Calcined clay	
Vitrified clays	
Crushed aggregates	low

available in bulk in the northwest United States.

Diatomaceous earth has the lowest bulk density of all topdressings and is highly susceptible to being transported off an infield skin by wind or rain. The particle structure is somewhat more fragile than the other topdressings and will tend to be the first to breakdown from the physical abrasion that occurs from dragging an infield skin.

The next, and final, installment of "The 'Dirt' on Infield Skins" will discuss how to amend or change infield skin base soils, and how to determine what types of topdressings to use on an infield skin. LM

— The author is manager of Beacon Ballfields and conducts seminars on baseball grounds maintenance. He can be reached at beacon@ballfields.com.



Circle 132

# Strategies to combat traffic

It's up to you, the turfgrass manager, to say "enough is enough" in saving your athletic fields from long-lasting harm

BY A.J. POWELL, JR., PH.D.

ow much play should be allowed on a game field, or even a practice field? No definitive answer to that question exists because field wear is determined by the size and intensity of the athletes, turf density and regrowth rate, and soil moisture at the time traffic is imposed. Schools are increasingly facing legal questions and are being held liable for injuries resulting from poorly designed or maintained facilities.

#### **Traffic trouble**

To have safer fields, you need to restrict play on those fields to one sport only. You also need a turf maintenance program that promotes regrowth and turf repair.

There is no rule-of-thumb concerning the number of games that can be played on a field. Some years, when the fall playing season is dry, 30 to 50 may not cause much turf damage. But it takes only one extremely wet game to destroy a great field. Also, in most years, once the field gets wet during fall, and especially after the

grass quits growing, the soil stays wet and turf under traffic declines rapidly.

The more traffic you put on a field, the faster the turf declines. Football causes extreme wear between the 20s, and soccer between the 20s and goal mouths. The marching band is also hard on the field because musicians tend to march along the same lines all the time. Also, band members often execute spinning turns in exactly the same spot repeatedly.

In most situations, properly maintained native soil fields will withstand traffic as well or better than fields with sand modification and internal drainage systems. The main advantage of sand-based fields is they'll withstand much more use in heavy rain situations. If a native soil field can be rain-tarped for a few days prior to games or practices, or if the game or practice can be postponed until the field is drier, then



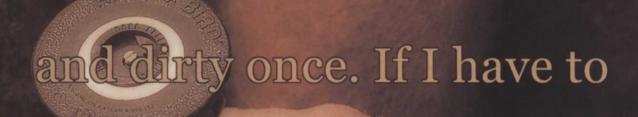
The goal mouths are the most vulnerable part of youth soccer fields. Portable goals give a turf pro the freedom to spread the wear.

native soil fields can be protected from heavy damage.

#### **Bermudagrass**

Bermudagrass forms a tight-knit, resilient continued on page 58

## I only want to get down



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continued from page 56 playing surface with lots of lateral stems (rhizomes and stolons) growing on or near the surface. Bermudagrass wear tolerance is great during the summer and early fall, but it can be easily overused in late fall or early spring when the grass is dormant (brown). If the above-ground foliage is worn off during heavy fall play, it's not likely to recuperate in spring.

Increase spring recovery of bermuda by covering the field with straw or a synthetic cover during winter, especially beThese little athletes are a lot easier on our community fields than the bigger players.

tween the hash marks. This is most important for the first year after establishment, but it's also important every year in which our winter is very cold (with little snow cover). Since we cannot predict winter weather, it's preferable to always cover the field.

With moderate field use and a minor amount of damage between the hash marks, you can repair the field in May or early June by hand-transplanting sprigs or bermuda sod from adiacent areas. If most of the field is destroyed, you'll need to hire a company to row-plant the field.



#### 10 ways to reduce sports field traffic

- 1. Restrict use when soil is extremely wet.
- 2. Restrict use when soil is dry and turf is wilting.
- 3. Always rotate heavy play areas during practices.
- 4. On game fields, restrict all practices to a minimum.
- 5. Restrict use when grass is dormant.
- 6. Restrict use until new grass is mature. This generally requires four to eight months post-establishment.
- 7. Prohibit use when surface is thawing.
- 8. Prohibit all unofficial play, allowing no pick-up games.
- 9. During heavy-use season, mow grass as tall as possible.
- 10. Use tarps on bench areas to reduce severe wear by coaches and team members.

- AJP







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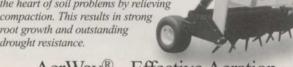
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Some new bermudas can be seeded in May or June at a much reduced cost, but these seeded varieties aren't as winter hardy and don't have the playing quality of the vegetative varieties. They can, however, provide a decent quality turf before late summer play. They can be seeded into established vegetative varieties.

#### Tall fescue/perennial ryegrass

Tall fescue and perennial ryegrass don't have good summer wear tolerance, but if they're fertilized with nitrogen during the fall playing season and mowed relatively high, they'll continue to resist wear during the entire playing season. They also don't form a tightknit, resilient sod. When tall fescue and perennial ryegrass fields become worn, then used when soil is wet, the surface is disrupted, roots are dislodged, and mud oozes toward the surface.

Spring use of tall fescue and perennial ryegrass fields is superior to bermuda since the coolseason grasses begin to grow in March. But if these fields are used in both the fall and spring. reseeding/renovation cannot be accomplished at the same time because the traffic will kill germinating grass seedlings. It's difficult to reseed cool-season grasses in late May/early June and get establishment needed for fall play. This is one reason bermudagrass is often chosen over tall fescue/perennial ryegrass — it needs hot weather and can be renovated during late May/early June when fields are less likely to be used. LM

> - The author is an extension turfgrass specialist with the University of Kentucky.

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Yankees'



gets a facelift

#### Cleveland firm lowers, levels historic playing surface

he New York Yankees
baseball team plays in
historic Yankee Stadium,
one of the oldest remaining Major League facilities. But they'll be competing on one of the
newest turfgrass fields.

Cleveland-based contractor S.W. Franks Construction reconstructed the baseball field during the off-season. The company faced a tight deadline because it had to have the field in championship condition for New York's April home opener.

"We used the complete resources of our company to provide the Yankees and the City of New York with the best playing field that can be built," said Paul Franks, executive vice president of S.W. Franks.

"We have been working the past several winters with some tough schedules and weather conditions," added Al Ewing, vice president of operations. "While we always get a little nervous about what could take place, we wouldn't have missed this chance for the world." Other recent jobs include completion of field construction projects for the NFL Cleveland Browns, Cincinnati Bengals, Pittsburgh Steelers and, most recently, the Major League Pittsburgh Pirates.

#### Lowering the field

One of the most important objectives designers face may surprise many spectators—the need to dramatically lower the existing surface. "Most people may not be aware of the steep drop in grade that occurs in the infield from first and third base to the playing field wall," explained Dar-

ren Varner, S.W. Franks vice president. "Currently, two feet of elevation change occurs in about a 20-foot-long run between the skin and the wall. It used to be three feet prior to a minor renovation a few years ago."

After all, the team would like to be able to see the ball rolling in the outfield from the dugout. Before reconstruction, the right field corner was about 10 inches higher than the left field corner, while the center field was the highest point on the field. In addition, the left outfield wall is a chain link fence, while the right outfield wall is concrete.

"We modified the outfield wall and pads to accommodate a full-scale lowering of the outfield and warning track," added Varner.

Field modification required a surface grading to allow for an approximate 16-in. lowering of the infield and maintaining of the existing elevations of monument park and outfield bullpens.

#### Movin' earth

In some areas, workers removed as much as three feet of existing soils from the field. This cut accommodated the profile required for the sand-based growing medium. The infield mix was removed first and stored adjacent to the site for reuse later. Once sub-grade elevations were complete, the company constructed the sub-drainage system. The irrigation system was installed, followed by a gravel blanket layer, which was spread evenly over the subgrade area. Irrigation laterals were also installed into this layer.

Following these stages, a laboratory-tested and approved rootzone mix blend was manufactured off-site and brought to the site and spread over the gravel blanket. After the mix was compacted and laser grade-verified, big roll bluegrass sod was installed. LM



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## Skid-steers and their attachments **Buying**

BY CURT HARLER / CONTRIBUTING EDITOR

n a perfect world, tractor attachments would work on skidsteers and vice versa. Salespeople live in that perfect world. They'll always tell you it'll fit. Engineers, however, live in a less cooperative universe.

Look at the bucket on a Bobcat or New Holland skid-steer. It's not high, but has a long floor that gives it good capacity and a good sight-line along the long edge for grading. A tractor bucket is comparatively short and high, explains Tom Siefert, product manager for tractors and implements at Kubota, Torrance, CA.

Take a pencil, balance it on one finger. Now move it a quarter-inch to one side. What happens? The geometry is the same with a loader, Siefert says. "The breakout force on a tractor is optimized for that short bucket. Put a skid-steer on it and you reduce the breakout force."

#### Time to change?

While he says it's always better to use a matched attachment for either a tractor or loader, Siefert has no problem changing around, as long as someone reads the manual. Landscapers can save money by not buying a second tool, but they have to know it might not be as efficient. You may lose 15% power and some time, but you will save money.

"Every manufacturer is beating the idea of versatility, but everything has limitations," Siefert says. "Yes, it may fit. But is it appropriate?"

Hydraulics can be a bugaboo. Be sure you're not driving an eight-gallon hydraulic post-hole digger with a five-gallon system. "Pallet forks are a no-brainer," he says. But he's cautious about buckets, especially those operated near the limits. Put the bucket from an 1845 skid-steer on an L-series tractor and you'll likely overload the tractor, especially if the dirt is wet or you're moving aggregate.

Companies like Woods and Land Pride now specify minimum pto for their brush cutter attachments. Sure, most equipment will fit a 3-pt. hitch and 540 rpm pto, but "just because it mounts doesn't mean it will work right," Siefert says. "Check the manual."

## considerations

Selecting the right skid-steer loader bit baffling since there are dozens of ston, sales manager for skid-steer loaders at Caterpillar (www.cat.com),

sive tasks that could be completed with a skid-steer loader's help?





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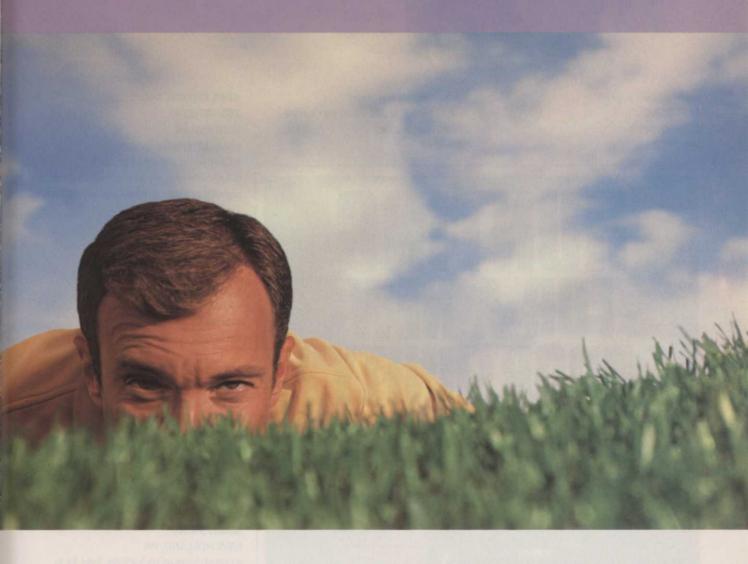
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continued on page 66





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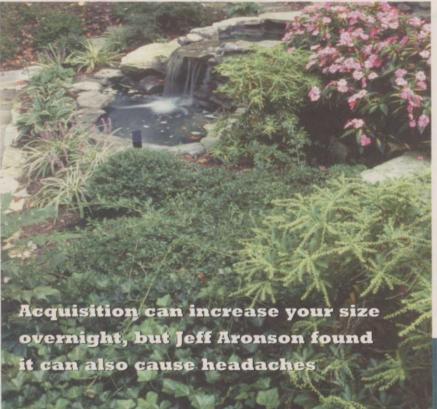




## solutions center

BUSINESS MANAGEMENT

# How to grow fast



BY JASON STAHL / MANAGING EDITOR

n 1998, Jeff Aronson found himself at a crossroads. He and a partner owned As You Like It, a \$625,000 landscape company located in Rockville, MD. The partner decided he wanted to sell his stake in the business and try corporate life. If it didn't work out, he told Aronson he wanted to be able to come back.

"I told him fine but let me run the company for one year," Aronson says.

#### The problem: slow growth

Even though Aronson led the company to 15-20% growth that year, he still was unsatisfied. "It was obvious that it was going to take longer than I expected for the company to become what I wanted it to become, and I wasn't sure I wanted to spend that kind of time to get it there," he says. "The question was, 'Should I make a push to get it to the next level now?""

#### The solution: acquire company

The answer he came out with was "yes." So he bought Potomac Valley Landscaping, a \$700,000 residential landscaping company located in the heart of the most exclusive suburb of Washington D.C. On top of that, the company operated on the grounds of one of the most reputable retail nurseries in Montgomery County. This alliance added tremendous potential to the deal.

"Instead of just a warehouse now, we had an outdoor storage area," Aronson says. "We also had gas tanks on site, and we were centrally located to where we did our work, reducing our travel time."

Those benefits, Aronson says, turned out to be, at least in the short-term, more valuable than the book of accounts he'd bought. "Since Potomac's volume was \$700,000 and ours was \$600,000, we assumed we'd do \$1.3 million right away. But realistically there was too much



By purchasing Potomac Valley Landscaping, Jeff Aronson (above) got the resources needed to build high quality landscapes (upper left).

transitioning going on to project that kind of money."

But a shortfall in revenue wasn't the only problem. The workers he'd acquired with Potomac were a tight knit group who'd had a lot of flexibility and didn't like the idea of working for a 29-year-old.

"Most of the foremen left and took their righthand guys with them, so we had an immediate labor problem," Aronson says.

Plus, Aronson felt the Potomac employees' pay scale was too high, and their bonus program, while based on job profitability, was "created by someone who didn't understand the landscaping business." The two remaining designers from Potomac had been used to what Aronson called a "wait for the phone to ring" customer management philosophy, but he wanted it to be an "in your face" philosophy aimed at bringing in new business.

"We set policies that were good for the company and if you didn't like them you moved on," Aronson says. "But we were

#### **Vitals**

**Company:** As You Like It & Potomac Valley Landscaping

President: Jeff Aronson

2001 gross revenue: \$1,300,000

**Employees: 22** 

Services: Maintenance, fertilization,

Customer mix: 98% residential

able to keep key people on throughout the last 2 1/2 years in solid positions."

To retain customers, Aronson says he played off the acquisition as more of a merger. "We didn't want to give anyone a reason to look anywhere else," he says. "We told clients it was good for both companies because As You Like It provides



Buying Potomac Valley Landscaping gave Aronson a solid design/build reputation.

great maintenance and Potomac Valley provides great design/build."

Although the merging of two businesses has been anything but easy, Aronson doesn't regret it because, as he says, the acquisition was "an entry into legitimacy."

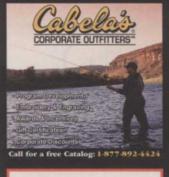
"Before, we were just a bunch of guys mowing grass and working out of a warehouse," he says. "It was a one-in-a-million opportunity to put myself in a position to succeed at the highest level, and I felt I owed it to myself." **LM** 



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## Ferris mowers help one-person firm think big



hen you're a one-person operation in the landscaping business, your mowers have to deliver top performance. So when Jack Carter, owner of Lawn & Land Scapes, Inc., in Hiawassee, GA, started his own business seven years ago, he looked to Ferris Industries for his mowing equipment.

Initially, Carter used a HydroWalk DD (dual drive hydro) with 52-in. cutting width from Ferris Industries to handle residential lawns. He later added a Ferris riding mower with 52-in. deck for larger properties.

"These two products gave me the versatility and dependability I needed to feel confident bidding on any job," says Carter.

Carter added a Ferris ProCut Z with 61-in. deck for its rigid construction and zero-turn capability. "Because northern Georgia is a mountainous area, I needed a product that would allow me to bid on yards with extreme slopes. I found that the ProCut Z provided the superior traction and stability necessary to handle this type of terrain.

"Mowing rugged terrain is probably my biggest challenge," Carter explains. "A lot of lawns in my area are little more than reclaimed pasture and some are very rough. After mowing for four or five hours under these conditions, operator fatigue is a real issue affecting productivity."

Carter's solution was a Ferris IS 4000Z with four-wheel independent suspension. "IS independent suspension allows me to mow all day and get off the machine as if I'm stepping out of a luxury car," he says. "Once I got the 'feel' of four-wheel IS, those rough properties were no longer a pain in the back to do anymore.

"From small yards to 10 acre properties, Ferris equipment provides the reliability, traction and cut I need to get the job done. It's the best equipment I've used in my 20 years in the landscape management business."

Jack Carter, owner of Lawn & Land Scapes, Hiawassee, GA, with wife, Dotti, and dog, Cody.



# **BUYING THE BEST**COMMERCIAL MOWER.

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- Serviceability. A simpler design means fewer parts and easier access to the engine compartment and hydraulics for routine maintenance and service. You should also look for 2-year warranties on parts and labor.
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To make your choice of a new mower even easier, be sure to see the new 2002 line of Ferris mid-mount, zero-turn riders at www.ferrisindustries.com. Ferris is the innovation leader in commercial mower design. Don't make a decision to buy a new mower for your business without visiting your nearest Ferris dealer.

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# Gethid mid nosts Colleged on weeds

# Knock out dastardly ornamental weeds with an integrated approach

BY HANNAH MATHERS, PH.D.



Organic mulch pretreated with preemergent herbicide may have lessened this crew's handweeding chores. Ongoing research indicates that this approach may lessen weed pressure.

ough" weeds often require "tough" chemicals.
Controlling weeds by only using herbicides, however, will fail to eliminate weed seeds from the soil seedbank.

This practice will select for biotypes that are resistant to the herbicides used, particularly where herbicides of the same mode of action are used continuously. An example is common groundsel (*Senecio vulgaris*), a prevalent weed and serious competitor in many nurseries and landscapes. Strains of atrazine-resistant and glyphosateresistant groundsel have emerged and are becoming an increasing concern.

Consider herbicides as just one component of an overall integrated system together with cultural or physical control and other combination management strategies. Listed with this article are research findings and management strategies that are useful in an integrated approach to controlling "tough" weeds.

#### Plant material selection

Some common and troublesome landscape weeds include quackgrass (Agropyron repens), yellow nutsedge (Cyperus esculentus), Canada thistle (Cirsium arvense), common (Stellaria media) and mouseeared chickweed (Cerastium fontanum), common mallow (Malvia neglecta), oxalis (Oxalis corniculata), bittercress (Cardamine sp.), field bindweed (Convolvulus arvensis), purslane (Portulaca oleracea) and ground ivy (Glechoma hederacea).

These weeds possess characteristics that make them more competitive or efficient than the ornamental plants they're growing around in the landscape or nursery.

To grow, all plants require light, mineral nutrients, air and water; the species most efficient at obtaining and using these elements will grow the fastest. The most troublesome weeds are the most efficient plants. However, the relative competitive advantage of one plant over another varies in different environments. A plant growing in an unsuitable environment is rarely competitive.

A ground cover of pachysandra (*Pachysandra terminalis*) is unlikely to have a serious weed problem growing in deep shade. Plant the pachysandra in bright sun and the bed will present a continuous

continued on page 74



continued from page 72 maintenance problem until removed and replaced with a groundcover suited to a hot, sunny environment.

The management strategy here is place the "right plant" on the "right site." Planting shrubs and trees in an area with compacted soil will create a competitive advantage for weeds such as pineapple weed (Matricaria matricarioides). On poorly drained soils, landscape professionals may have more problems with weeds in general but especially with ones such as wild garlic or wild onion (Allium vineale), yellow nutsedge and creeping buttercup (Ranunculus repens), particularly if the plants chosen for the site prefer well-drained soils such as Scotch pine (Pinus sylvestris) or Potentilla spp.

#### **Enhance herbicides' efficacy**

As a result of increasing financial and environmental concerns, reducing the use of herbicides while maintaining profitable crop production and attractive landscapes



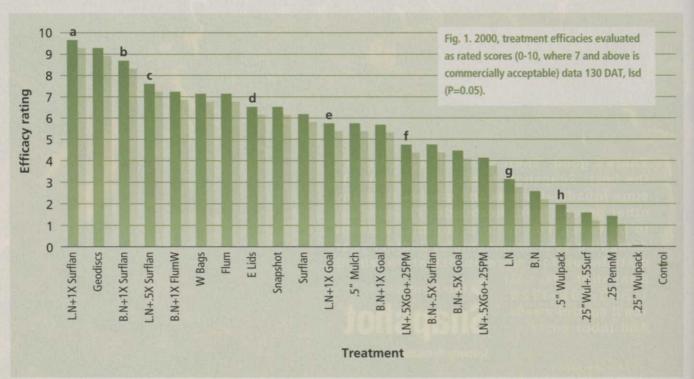
A wide variety of mulches has been advocated for weed suppression in ornamentals.

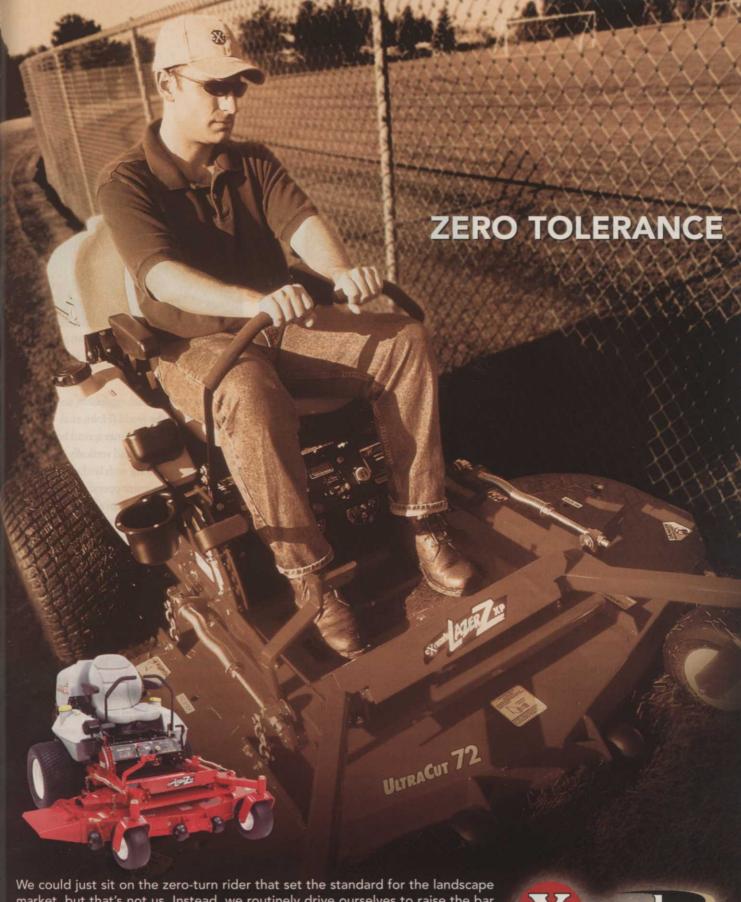
has been the recent focus of considerable research. Various approaches have been examined, including using below-label rates, choosing the proper time and method of application, or adding surfactant or other additives. Studies have been conducted to enhance the efficacy of

glyphosate in controlling quackgrass by adding ammonium sulphate.

Quackgrass is a prevalent weed problem in landscapes, particularly in Ohio and other areas of the Midwest, in part because it has great reproductive ability through

continued on page 76





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continued from page 74

both sexual and vegetative means. The rhizomes produced by a single shoot may spread in diameter to about three meters or 10 feet, with a large number of above ground shoots forming a dense population (Werner and Rioux 1977). Controlling quackgrass requires suppressing both the top growth and rhizomes in the soil.

### To control quackgrass, suppress both the top growth and rhizomes in the soil.

Glyphosate is a non-selective herbicide capable of controlling quackgrass (Ivany 1988). Ivany found that top growth control of quackgrass at 0.56 kg/ha (0.5 lbs/ac) of glyphosate was comparable with that of the label rate of 0.9 kg/ha (0.8 lbs/ac), with the addition of ammonium sulphate. Periodic applications at the high rate of 0.9 kg/ha (0.8 lbs/ac), in combination with the 0.56 kg/ha (0.5 lbs/ac) rate and ammonium sul-





Field bindweed (left) is one of the most aggressive weeds in the world. Chickweed (right) also possesses characteristics that make it more competitive than the ornamentals it grows around.

phate, gave effective rhizome control (Hamill and Zhang 1995).

There is no consensus on the effectiveness of ammonium sulphate to improve the efficacy of glyphosate. However, one proven method for increasing glyphosate efficacy in seasonal quackgrass control or in situations where cultivation has occurred is to use lower water volumes. By lowering the water volume to five gallons per acre, glyphosate can be applied at 2.4 L/ha (0.26 gal/ac) versus the label rate of 7L/ha (0.7 gal/ac).

#### **Biocontrol**

Field bindweed (Convolvulus arvensis) is one

sistent weeds in the world (Holm et al. 1977). The herbaceous vines spread horizontally on the ground and vertically over other plants, interfering with landscape plant growth and management operations. An extensive root system allows field bindweed to compete effectively for nutri-

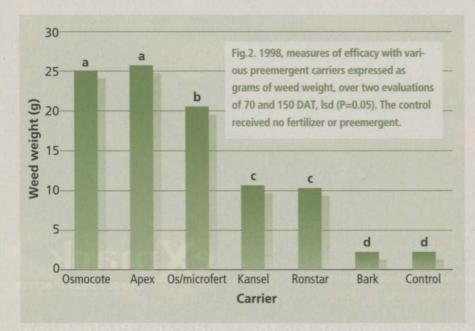
ents and water, resulting in severe reductions in landscape plant growth (Heiny 1995).

of the most widespread, aggressive, and per-

In recent years, fungi with potential for controlling field bindweed have been studied. Phoma proboscis infects leaves and stems of field bindweed. The pathogenicity of P. proboscis is primarily specific to members of the family Convolvulaceae. In 1995, Heiny found that applications of P. proboscis in combination with a sub-lethal dose of nonselective herbicides killed mature field bindweed tissue. The applications were performed in the later part of the growing season (July 31 and September 4) when dew periods were adequate (8 to 10 hours).

Four species of beetles, Hylobius transversovittatus, Galerucella pusilla, G. calmariensis and Nanophyes marmoratus have been tested and released for biological control of purple loosestrife (Lythrum salicaria) in the United States (Ontario Federation of Anglers & Hunters 2001).

Galerucella pusilla and G. calmariensis are leaf-eating beetles which seriously affect growth and seed production by feeding on the leaves and new shoot growth of



purple loosestrife.

Hylobius transversovittatus is a rootboring weevil that deposits its eggs in the lower stem of purple loosestrife plants. Once hatched, the larvae feed on the root tissue, destroying the plant's nutrient source for leaf development.

Nanophyes marmoratus is a flower-eating beetle that severely reduces seed production in purple loosestrife. In North America, it's hoped the impact of biological control agents will reduce purple loosestrife abundance by 80%. However, researchers believe it will take 10 to 20 years to achieve this goal (Ontario Federation of Anglers & Hunters, 2001).

#### Mulch to the rescue

A wide variety of inorganic and organic mulches have been advocated for weed suppression in ornamentals. Organic mulches control weeds by inhibiting germination and suppressing weed growth (Skroch et al. 1992, Borland 1990 and Duryea et al. 1999). The effects of

The effects of mulch on weed control are greatest when the mulch is fresh.

mulches on weed control are greatest when the mulch is fresh (Duryea et al. 1999). Pelletized (PennMulch) and crumbled recycled paper products have also been researched as mulches for weed control efficacy (Smith et al. 1999). Smith et al. 1999 found that the recycled paper was effective for weed control; however, they indicate using recycled waste paper may be cost effective only in specific situations. In 2000, they found PennMulch, a recycled, pelletized newspaper product with 1% nitrogen added, didn't provide effective

weed control applied at 0.25 in. or 0.5 in. at 130 DAT (Figure 1).

The most commonly used mulches in Midwest landscapes are barks. In other

areas of the country pine needles are popular. In a study of three bark mulches and two pine needle mulches, Skroch et al.

continued on page 78



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Circle 144



WEED CONTROL



Plants going into an unsuitable environment like this will have a competitive disadvantage against weeds.

continued from page 77
1992 found that even
when applied at a depth
3.5 in. (8.89 cm), the
mulches only reduced
weed counts by 50% over
the untreated controls.
This was well below
what's considered commercially acceptable. In
2000, they found that
Douglas fir bark mulch
applied as a single layer
provided little weed control and was well below

commercially acceptable efficacy at 130 days after treatment (DAT) (Figure 1).

#### Herbicide-treated mulches

At The Ohio State University, we've found that organic mulches pretreated with preemergent herbicides offer several additional advantages to weed control over untreated mulches.

This is an integrated weed control approach in that both physical (mulch) plus chemical (preemergent) control is advocated, a combination that could be beneficial with "tough" weeds. The only calibration required with pre-emergent pretreated mulches is monitoring the depth to ensure the optimum application rate. Application is simple and safe and eliminates sprayer calibration problems (Mathers 1999).

The application of preemergent-treated bark in 1998 (Figure 2) and 2000 (Figure 1) resulted in increased and extended herbicide efficacy. In 1998, the control, which contained no fertilizer or herbicide, was the most efficacious treatment (Figure 2), indicating there's a direct relationship between amount of fertilizer applied and weed growth.

Of course, without fertilizer, the control was also the most phytotoxic treatment (data not shown). The management strategy here is that if you're applying excess fertilizer, you may wasting money and increasing your weeding costs.

#### A leading issue

Weed control has become a leading issue in ornamental culture for three reasons:

With increased irrigation water restrictions and the necessity of recirculation ponds in container nursery culture, fewer herbicides are being registered for ornamentals due to chemical companies' fears of reapplication onto stock.

With the new Food Quality Protection Act, herbicide registrations will be lost. This will have a greater impact on the ornamental industry than fungicide or insecticide losses. Why? Because organic growers conducted a survey of grower research needs, and the number one issue for organic growers in pest management was weed control.

The combined cost of weed control, chemical applications and hand weeding is already landscape professionals' largest pest management cost.

The cost of weed control. chemical applications and hand weeding is already landscape pros' largest pest management cost.

The effectiveness of herbicide-treated mulches in controlling weeds is being explored further at The Ohio State University. Even though greater efficacy is achieved with the herbicide- treated bark, phytotoxicity is reduced, probably because the herbicide is never directly applied on or near the plant material.

The extent of damage caused by weeds is often underestimated. Effective control of weeds is essential, but the environmental impact of an overreliance on chemical herbicide applications warrants taking a look at other weed control methods. LM

- The author is an assistant professor in the Department of Horticulture and Crop Science at The Ohio State University.

Read w.landscapemanagement.net More

For a complete list of the sources that Dr. Mathers used in preparing this article, revisit the article on our Web site at www.landscapemanagement.net.

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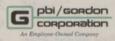
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Circle 146

# ask the expert

BY BALAKRISHNA RAO

#### Mystery containers

We have some old, leftover pesticide we inherited from a previous owner. The brand name on one container is "Pagent." It smells like an insecticide. We also have another container with the name "Asset." It doesn't smell like a pesticide. We want to get rid of them. Can you tell us what their active ingredients are?

- co

Pagent is an insecticide, so your nose was right. It's active ingredient is called chlorpyrifos, the active ingredient in Dursban. Pagent insecticide was a product of the former DowElanco Sciences.

Asset is a proprietary fertilizer additive from Helena Chemical Company. It contains 2% water-soluble magnesium, a plant nutrient derived from magnesium ammonium carboxylate.

Get a copies of their labels and the Material Safety Data Sheet (MSDS) of each, and handle these products as directed. Your effort to properly dispose of unusable products is commendable.

#### New herbicides

Our employees mentioned that attendees at the PLCAA meeting in Florida last November were talking about some new herbicides called Speed-Zone and Power-Zone. What are these?

- NC

Speed-Zone and Power-Zone are post-emergent herbicides manufactured by PBI/Gordon Corporation and designed to manage broadleaf weeds in turfgrass. They're federally registered in North Carolina and several other states. It's expected to be registered

soon in California, New York and Alabama.

There are two formulations of Speed-Zone: Speed-Zone broadleaf herbicide for cool-season turf s (red-colored title on label), and a St. Augustine formula (green heading at top of label.)

The cool- and warm-season formulations contain a new chemistry consisting of car-fentrazone-ethyl, 2, 4-D, 2-ethylhexyl ester, mecoprop-p, acid, and dicamba, acid that inhibits a key enzyme in chlorophyll production and disrupts the cell membrane.

Speed-Zone herbicides have a caution label and are available in the EC formulation for ornamental turf, lawn and golf courses. A PBI representative said that even though these herbicides are esters, they won't affect nearby non-target ornamentals.

Speed-Zone and Power-Zone are reportedly fast-acting herbicides, with activity occurring within 8 to 16 hours after application and adequate weed control 7 to 14 days after treatment. These herbicides have good activity on clover and hard-to-control weeds such as oxalis (primarily O. Strieta, difficult on O. Corniculata), veronica (speedwell), ground ivy, and spurge. Treated areas can be reseeded within two weeks.

Power–Zone is another formulation containing carfentrazone-ethyl. Unlike Speed-Zone, it's a 2, 4-D-free product. Instead of 2, 4-D, it contains 2-ethylhexyl ester. This ester product with low volatility would be an alternative formulation where 2, 4-D is not desired. This is rain-fast in three hours, can be reseeded in two weeks, and has a caution signal word.

#### Safety first

I'm looking for weed control products that are safe for a technician as well as a consumer, one without cancer-causing risks. Can you suggest alternatives?

- OH

Kathy Zahirsky, Environmental Programs, Davey Tree Expert Company, made the following comments regarding your question:

"Nothing is 100% safe. There's always some risk involved with every action or activity in our daily lives. We can, however, minimize those risks involved with herbicide application by following label requirements during application, wearing appropriate and clean personal protective equipment during application, limiting reentry into treated areas after applications, and following outlined engineering controls during mixing and loading.

"Without doing an in-depth literature review, I know that herbicides currently labeled for lawn care and weed management aren't on the list of 'known carcinogens.' Manufacturers of material safety data sheets are mandated to report their product carcinogen classification. Please review the MSDS or contact the primary manufacturer to get specific details about the product(s) of your choice.

#### Correction

In the Ask the Expert column in the January 2002 issue of *Landscape Management*, "Sulfate" was listed as a pre-emergent herbicide. There is no such her-

bicide. Surflan is the correct pre-emergent herbicide. I apologize for the error.



Manager of Research and Technical Development for the Davey Tree Expert Co., Kent, Ohio SEND YOUR QUESTIONS TO: "Ask the Expert" Landscape Management; 7500 Old Oak Blvd.; Cleveland, OH 44130,

or email: sporter@advanstar.com. Please allow two to three months for an answer to appear.



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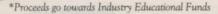
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February 19, Columbus, OH The Knowledge Development Center

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#### Schedule of Events

7:30 A.M. - 8:00 A.M.: Continental Breakfast 8:00 A.M. - 12 NOON: Inside the Owner's Head 12:00 NOON - 1:00 P.M.: Lunch 1:00 P.M. - 2:00 P.M.: Insight into Weed Man and Networking Opportunities





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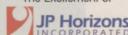
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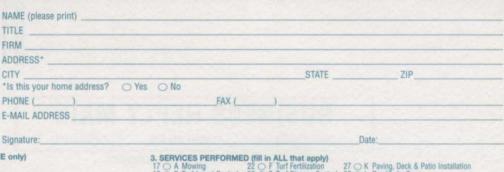
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5. Do you have Internet access? 52 O A Yes 53 O B No

5A. If so, how often do you use it? 56 C Monthly 54 O A Daily 55 O B Weekly 57 O D Occasionally

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#### March

11 NYSTA Western Regional Conference / Buffalo, NY; 800/873-8873; www.nysta.org

16 ILCA Equipment Auction / Crystal Lake, IL; 630/472-2851

21-24 ALCA Student Career Days / Peoria, IL; 800/395-2522

22-24 Capital District Garden & Flower Show / Troy, NY; 518/356-6410

#### April

4 Adirondack Regional Conference / Lake Placid, NY; 800/873-8873

5-6 Laying the Groundwork Symposium / Raleigh, NC; 919/515-8340

**Z-9 EETC Annual Conference** / Bloomington, MN;
<u>www.eetc.org</u>

**14-17 North American Snow Conference /** Columbus, OH; 816/472-6100

#### May

1 Turfgrass IPM / Davis, CA; 800/752-0881; <u>www.exten-</u> sion.ucdavis.edu/agriculture

**3-7** ASIC National Conference / Tucson, AZ; 312/372-7090

4-6 TOCA Annual Meeting / San Antonio, TX; 952/758-6340

**5-7 Green Space Design Conference /** Denver, CO;
877/473-7526

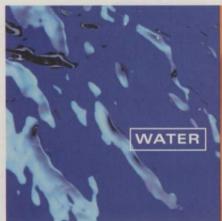
#### June

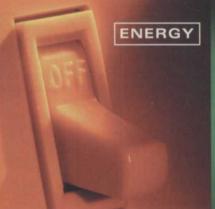
**19-23 GCA Retail Tour /** Boston, MA; 202/789-2900

#### July

11-14 ANLA Convention & Executive Learning Retreat / San Diego, CA; 202/789-2900

13-17 Soil and Water
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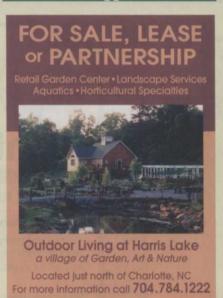
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# best practices Guidelines to Help an Industry

# Establish your rates

BY RON HALL / EDITOR-IN-CHIEF

doesn't think so, though.
When Russo, president of
Russo Lawn & Landscape,
Windsor Locks, CT, set about
to determine how much grass
his operators could cut in an
hour, he did it the old-fashioned way — with a measuring
wheel and stop watch.

ou might think Mike

Russo overdid it. He

Russo timed mowers in action with different operators under different conditions over several seasons. Finally, he was satisfied he knew how much production to expect out of each mower type and size.

"What we have now is a pretty accurate and realistic production rate for each type of equipment," he says. "It is basically an average of varying conditions."

He measured his firm's 48in. walk behinds, 60-in. ZTs, Walker mowers, 52-in. Wright standers and push mowers.

He also established production rates for string trimming and stick edging.

"Estimating a property is re-



Russo figured out his mowing rates the old-fashioned way.

ally all about having a complete scope of work to be done and a simple map or notes on measuring the square/lineal footage," Russo says. "I have even counted shrubs to help get a handle on pruning times and costs."

Without production rates, your estimates can be out of line.

Landscape companies need to establish production rates for their equipment and operators so they can accurately and consistently estimate the man hours needed to maintain a property. You can then provide potential clients with proposals that guarantee the service they

demand at a price that returns your company a fair profit.

The information also allows you to budget and track man hours for each account. Labor represents a maintenance firm's greatest expense (over 30%). It's crucial that crews perform their tasks efficiently considering the tight margins that characterize your business.

Even small inefficiencies (15 minutes wasted here or there) drain a company's bottom line, particularly when the inefficiencies are multiplied over the 30 times or more a season a crew might service a property.

How exact should you be in establishing production rates? As precise as possible, realizing it isn't an exact science.

Some properties, for instance, contain beds, trees, telephone poles or hills. Or, the grass takes longer to cut depending on the season or weather.

Establish production rates for better profits in each maintenance task.

### Sound off

What do you think about our take on production rates? Did we miss a crucial point?

Every month we provide space for feedback on this page. If we select your comments, we'll mail you a copy of the book, "Picture Perfect: Mowing Techniques for Lawns, Landscapes and Sports," by David Mellor, grounds supervisor for the Boston Red Sox. Send comments to Best Practices, Landscape Management, 7500 Old Oak Blvd., Cleveland, OH 44130. Or e-mail your response to jstahl@ad-

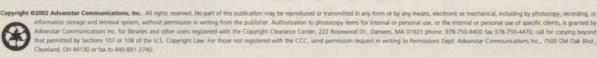
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