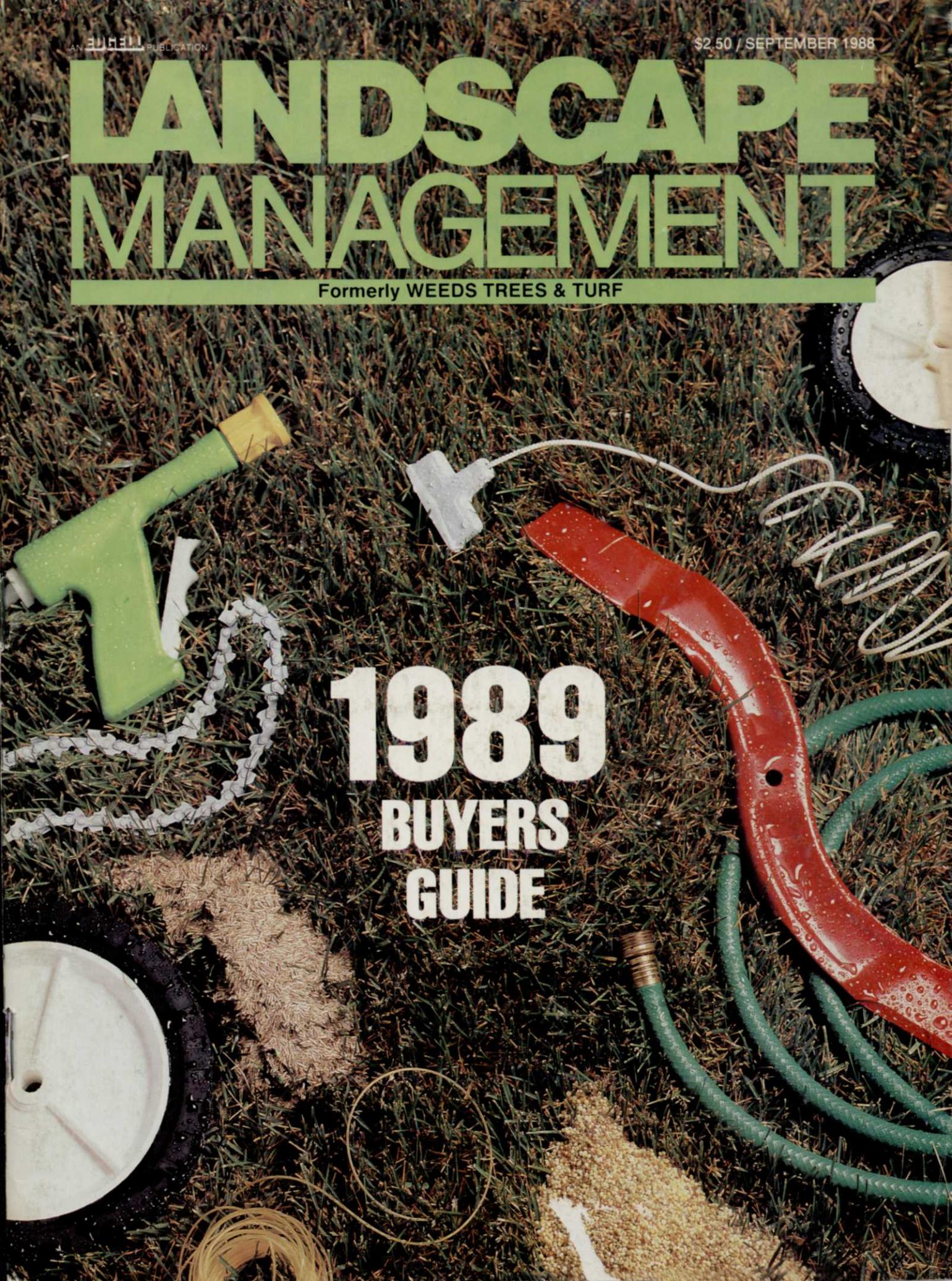


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## 1989 BUYERS GUIDE



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The Vintage Club  
Indian Wells, CA

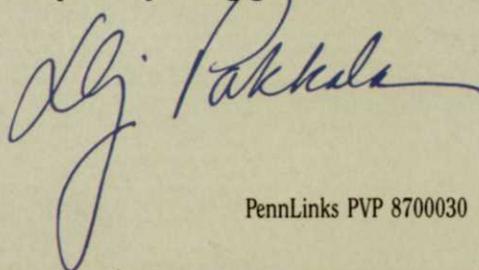
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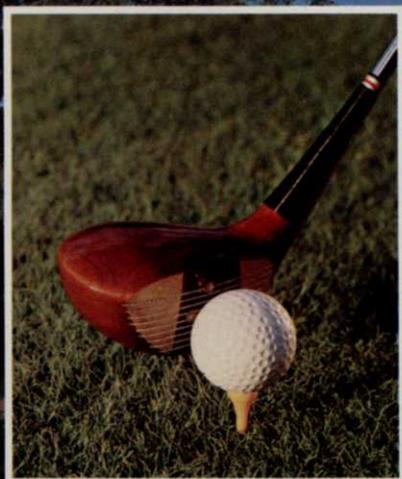
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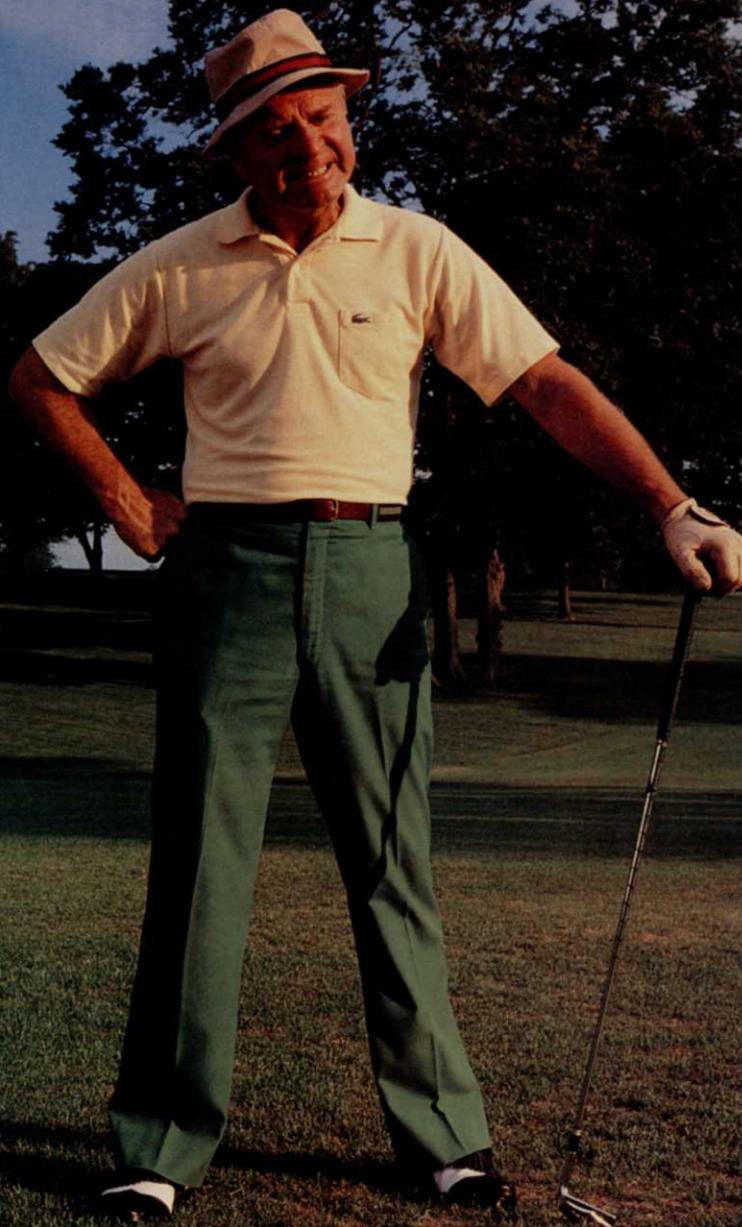
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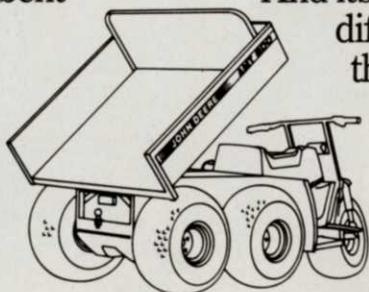
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8

## 28 A LANDSCAPERS' HOME LIBRARY

Every once in a while, landscape managers must confront problems for which they don't have immediate answers. If they knew the vast array of books, brochures, video tapes and pamphlets available for turf and tree care, references would be no problem.



28

## 35 1989 BUYER'S GUIDE

As you begin to get ready to purchase equipment, chemicals and seed for the 1989 season, you'll want to refer to the annual Landscape Management Buyer's Guide, 34 pages of jam-packed information.

- 35 Equipment
- 58 Equipment companies
- 70 Chemicals
- 87 Chemical companies
- 92 Seed companies
- 96 Miscellaneous

### DEPARTMENTS

- 6 NEWS/TRENDS
- 8 GREEN INDUSTRY NEWS
- 100 PRODUCTS
- 110 CLASSIFIED
- 116 AD INDEX



ON THE COVER: Some of the products available to landscapers and golf course superintendents through the 1989 LM Buyer's Guide

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*The Rose Bowl at Pasadena, CA, January 1, 1988*

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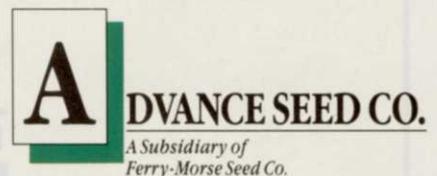
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## A new perspective on chemicals

■ Why are federal health agencies pouring so much time and energy into regulating chemicals that pose less of a health hazard than peanut butter? That's the question being asked by Dr. Bruce Ames, a scientist in the biochemistry department at the University of California, Berkeley. Ames, creator of the Ames Test and one of the foremost consumer advocates of the 1960s, is again in the national spotlight since publishing *Ranking Possible Carcinogenic Hazards*, which challenges the government's method of assessing a chemical's potential risk.

According to Ames, researchers need to take into account how many people are likely to be exposed to a chemical and its threat at low doses, not merely what happens when you pump it into a rat. Case in point: Ames points out that the EPA banned EDB after determining it could cause three cases of cancer in 1,000 (about one percent of all cancer in the United States). "It would be more reasonable," writes Ames, "to compare the possible hazard of EDB residues to that of other common possible hazards. For example, the aflatoxin in the average peanut butter sandwich, or a raw mushroom, is 75 to 200 times, respectively, the possible hazard of EDB."

Ames adds that the alternatives to chemicals should be considered. That way, he says, regulators can set more realistic priorities for concern.

## Arizona legalizes sterile carp

■ Golf course superintendents in Arizona have won the battle of the white amur. The fish, commonly known as a grass carp, had been used to control vegetation in course ponds and streams until the Arizona Game and Fish Department banned it last October. Citing its threat to the limited vegetation in the state's game rivers and fears that it would reproduce, the Department ordered the fish destroyed and created stiff penalties for those failing to comply.

A compromise was reached this summer when the state legislature approved the use of genetically altered variety of the fish, called a triploid, which is sterile.

"There has been no evidence that the triploid white amur has any environmental impact on the game fish population or waterfowl," said Dennis M. Wesseldine, a regional superintendent with the American Golf Corporation. "We must encourage all superintendents and golf organizations in the states where the amur is illegal to lobby with local state legislators to encourage the complete biological control of aquatic weeds."

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## PEOPLE

### This water lady hits the jackpot in Oregon

Color Maryann Mangucci's Cushman scooter any colors you want. Just use lots of them. Color its owner enthusiastic.

And that colorful combination has helped Mangucci become a successful businesswoman in just three years.

On any given summer day, you can see Mangucci putting around Silverton and Mount Angel, Ore., watering hanging baskets which have been placed in public areas.

The two chambers of commerce wanted to beautify their cities, so they erected the baskets and had flowers planted in them. Someone had to water the flowers, too, and Mangucci was in the right place at the right time.

It was husband Phillip's idea to purchase the 1971-model scooter; she has registered more than 800 miles in it. The scooter ("my efficient little workhorse") has a 55-gallon Cushman stainless steel tank, a pump hooked into the scooter's 12-volt battery, and a 13-foot wand made of conduit for lightness. Mangucci waters 25 hanging baskets in each city once a day—twice a day when the temperature gets over 90 degrees.

Why the brightly-painted scooter? "I wanted to be visible as well as pretty-looking," she says. "And it's worked out beautifully. I've been very successful. I've even had quite a few requests for landscape work, but I don't do that kind of work, so I refer them to my friends."

Before going into her own interiorscaping business, Mangucci spent 16 years working in a business office. "This beats it all together," she notes.

And then she's off again, in search of more baskets to water.



## RESEARCH

### Ohio State professors take to the road to address drought concerns of supers

Four members of the Ohio State University Agronomy Department toured areas of Ohio in mid-July to personally address drought concerns of golf course superintendents.

Participants in the tour were Ph.D.s John Street, Karl Danneberger, Harry Niemczyk and Bill Shane.

One of the final stops was at Quail Hollow Resort in Painesville, where superintendent Jim Loke assembled about a dozen superintendents from the northern Ohio area. Where the courses got their water and how it was used was a sore spot for some neighbors of golf courses.

Don Sweda, superintendent at Beechmont Country Club in Pepper Pike, said he received a crank phone call in the middle of the night from someone ordering him to stop watering. He uses water from lakes on the course to irrigate.

Jean Esposito of Hinckley Hills Golf Course in Hinckley, had her own experience which included the Cleveland Water Department, members of the local television media and crank phone calls (see related story).

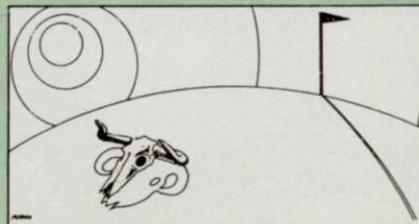
Nearly all of the courses in the region ceased irrigating roughs early on, if they even had the capability to start with. Most public courses—without the large budgets of some of the private clubs—stopped watering fairways. These, too, were brown.

Danneberger noted that "the Cincinnati area was hit hard" because courses using municipal water were cut back severely.

One of the concerns expressed by the superintendents was whether this turf would recover with rainfall and green up again in the fall as conditions moderated.

Esposito, whose Hinckley Hills course has no fairway irrigation system, was optimistic after the first significant rainfall in weeks graced her course the previous weekend. "I can see some green coming back into them," she told the group—not much, but it was there.

"The grass must get some water," Danneberger noted. "Dormancy does not mean it won't die. But with this kind of year, there is stress on the grass we haven't seen in 50 years. There will be problems," he



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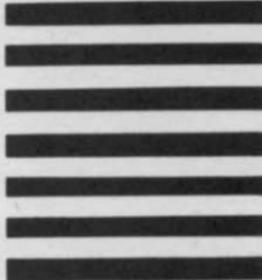
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## Drought spawns controversy

The "If-I-can't-have-it-neither-can-you" mentality hit northeastern Ohio golf courses hard in July over water use. The drought conditions forced homeowner watering bans that did not include businesses—which golf courses are considered.

Though about two inches of rainfall cooled tempers in the latter part of the month, the dry heat of the first part of the month did more than brown out turf. Most superintendents around the area got more than a few headaches from neighbors.

Superintendent Jean Esposito, of Hinckley Hills Golf Course, in Hinckley, had her share of troubles. When her lakes started dropping dangerously low, she researched ways of replenishing the level since heavy rainfall seemed out of the question.

She found through a series of applications, the course could get permission to draw water legally from the City of Cleveland. The necessary steps were taken and a permit and meter were obtained. Appropriate fire marshalls approved, and the county engineers allowed the laying of  $7/10$  of a mile of pipe to a nearby fire hydrant serviced by the Cleveland Water Department. "We didn't think there would be a problem," Esposito explains.

The course intended to draw about

a million gallons or "whatever they permit us to take" over 30 to 40 days, Esposito says, drawing between the hours of 9 p.m. and 6 a.m.

However, testing the line in daylight was necessary to check for leaks and rate of gallons per hour they could draw. The course gained approval for this, and on the morning of the test got a call from a man claiming to be with the Cleveland Water Department approving the test, but not between 4 and 6 p.m.

The test began at noon and a film crew from WJKW-TV was there by 1 p.m. The story on the course aired that evening on the news, but didn't mention the legality of what the course was doing until two-thirds of the way through the feature.

Less than a half-hour after the film crew left, Hinckley Hills received another call from someone claiming to be with the water department, accusing the course of abusing its use of the meter and asking them to return it.

Doubting the person's word, she called the man she had been dealing with at the department and found the claims were false.

At the end of July, Hinckley Hills got approval to draw water 24 hours a day and it will continue to draw "until we reach our limits or they tell us to stop," Esposito says.



Harry Niemczyk



Karl Danneberger



John Street

understated.

The best estimates at the time were that 20 to 25 percent of the lawn turf around the state was "dead with no recovery," Street said. "If these conditions continue through July and August, it's anybody's guess what will happen." (They didn't.)

Concerns on how the drought would affect other areas such as pest management also cropped up. Sweda's browned-out roughs were infested with Japanese beetles. With no irrigation to water in insecticides, he was looking for a solution.

Niemczyk, an entomologist, suggested milky spore disease as a solu-

tion, albeit a slow one. The disease, Niemczyk said, takes about three years of applications to become a serious control tool on grubs because it has to establish. Granular insecticides and "praying for rain" were also suggested.

Concerns about water quality also arose. Shane noted there was a "potential for water quality to drop with pesticides from adjacent farmland running into streams" after a significant rainfall. Shane recommended sampling water sources after rainfall for quality readings.

A couple other recommendations coming out of the meeting were to use slow release fertilizers and to not broadcast-apply herbicides to control clover that was popping up at the time. "But why would you want to kill it?" Esposito quipped. "It's the only thing that's green."

## Dobie receives McLaren Award

Frank Dobie has received the Mal McLaren Award from the Northern Ohio Golf Course Superintendents Association, the oldest such group in the country.

The award, named in honor of the late superintendent of Canterbury and Oakwood Country Clubs and 1952 GCSAA president, was established 10 years ago by Don Sweda, superintendent at Beechmont Country Club, and his brother George, the golf writer for the Cleveland *Plain Dealer*. McLaren was an innovator in his 50



years as a superintendent, helping to advance the profession and its technology from the primitive toward today's standards. He served as a mentor to both Swedas when they worked summers at Oakwood, inspiring them to their chosen careers.

Dobie has been a superintendent nearly 30 years. He is the Sharon (Ohio) Golf Club's first and only superintendent and general manager, since 1964.

A product of Penn State's turf program, Dobie is active in numerous industry groups, and is at least partially responsible for the growth of the Musser Tournament and its beneficiary, the Musser Turf Foundation, of which he is the president.

Because of the special nature of the Swedas' relationship with McLaren and his tremendous contributions to the industry, they sought to keep the award from being an annual award, making it all the more meaningful.

The first—and only other—recipient was John Spodnik of Westfield Country Club in 1980.

"My first reaction is it's an honor to be given an award from my peers," Dobie said. "It's a reminder of people like John Spodnik, Mal McLaren, Bob Williams and Colin Smith and what they did for me when I was starting out: advice, counsel; there were no secrets.

"They're not the minority either.

*continued on page 14*



## What The Average Person Considers An Eyesore On The Golf Course.

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# Landscape Exposition



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The majority of the industry is like that. I wanted to be like that, taking what I've been given and returning it to the industry; the time, efforts and skills so others can benefit. It's necessary for the continued growth and *esprit de corps* we have.

"I always viewed Mal as a groundbreaker," Dobie recalled. "That's the kind of environment that's been in this area for years," dating back to the early years of the local and national association, with such figures as Col. John Morley, president of GCSAA for the first six years of its existence.

"Whatever I've done here in the area," Dobie explained, "is consistent with what's been done here for 50 years. This award represents many people that are just as deserving. This is an acknowledgment of everybody."

CONFERENCES

Here comes the Landscape Expo!

Thousands of landscape professionals will convene in the Nashville (Tenn.) Convention Center on the weekend of Oct. 22-24 to attend the third annual Landscape Exposition. Billed as "the green industry's most far-reaching



Landscape Exposition

event," the Landscape Expo will offer an informative, economical and enjoyable weekend experience for professionals from landscape and grounds care facilities.

The Landscape Expo exhibit floor will be packed with displays of the latest in lawn care products, chemicals, fertilizers, seed, irrigation systems, power equipment, accessories and more. Among the major manufacturers to be represented are: Cushman, Deere, Yamaha, Toyota, Snapper, Grasshopper, Monsanto, HMC, Chevron, Northrup King, Rinco, Buckner Irrigation, Elanco, Hoechst-Roussel, Hydra Mac, Befco and Teledyne Total Power.

"The Landscape Expo brings the many diverse groups within the landscape industry together under one roof," says show manager Becky Lerew, "giving them the opportunity to meet with their peers and also see the newest and most advanced products and equipment.

"Plus, the Landscape Expo seminars offer them the chance to update

their business management skills and learn of new solutions to technical and regulatory problems that face the entire industry."

The Expo has been carefully planned to be convenient to attend. The fall timing means that they can afford to spend a few days away from their businesses, and are ready to plan purchases for the coming season. The show's weekend dates make it easy to bring the family and combine business with pleasure. Nashville is a terrific spot for family entertainment, with attractions that include the Grand Ole Opry and Andrew Jackson's Hermitage, shopping, dining and nightlife.

Special discount coupons will be mailed to everyone who pre-registers for the Expo, and special in-hall entertainment, prizes and giveaways will add excitement to the show.

The Convention Center is easily accessible from major highways. Attendees can choose from a wide variety of accommodations ranging from first-class hotels to KOA Campgrounds. Specially discounted travel hotel rates are available through Travel Planners, the official travel agency of the Landscape Exposition.

For more information on the third

Reubens Canada bluegrass

U.S. Plant Patent No. 3823



The right grass for water-stressed roughs, marginal maintenance areas.

Also an excellent mixture component for low-maintenance fairways and other specialized turf areas.

Reubens made its reputation in tough reclamation areas where water and nutrients were low.

These characteristics make Reubens an excellent choice for golf course roughs under drought stress or marginal maintenance conditions. Reubens is also an excellent compo-

Available through your local wholesale seed distributor or

ment in fairway seed mixtures designed for low-maintenance.

Reubens germinates faster, is lower growing with dark green appearance in spring, then progressing to a blue-green color.

Insist on Reubens for your water stress or low-maintenance areas.

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Jacklin Seed Company

# Three ways Mazda trucks outperform the competition.



1988 Mazda B2200

If you're about to commit your company's resources to building a truck fleet, you've probably looked at Ford Ranger, Chevrolet S-10, Toyota and Nissan. But your shopping list isn't complete until you've taken a good look at Mazda. Because Mazda trucks offer some very important advantages over the competition.



**Mazda trucks: Number one in overall customer satisfaction for three straight years:**

1986	1987	1988
MAZDA #1	MAZDA #1	MAZDA #1
TOYOTA #2	TOYOTA #2	TOYOTA #2
NISSAN #5	NISSAN #3	NISSAN #4
CHEVROLET S-10 #6	CHEVROLET S-10 #7	FORD RANGER #8
FORD RANGER #9	FORD RANGER #9	CHEVROLET S-10 #10



**Mazda B2200 Cab Plus.** Combining spaciousness with practicality, the Cab Plus is the first extended-cab compact truck that allows two adults to sit facing forward in optional rear jump seats.

**Mazda trucks: Offer a 36-month/50,000-mile "bumper-to-bumper" warranty—The best in the truck business.\*\***

MAZDA	TOYOTA	NISSAN	FORD	CHEVROLET
36 MONTH WARRANTY	36 MONTH WARRANTY	12 MONTH WARRANTY	12 MONTH WARRANTY	12 MONTH WARRANTY
50,000 MILE	36,000 MILE	12,500 MILE	12,000 MILE	12,000 MILE

**Mazda trucks: Offer the most truck for your money.†**

Standard Features	Mazda B2200 Base	Toyota Standard	Nissan Standard	Ford Ranger "S"	Chevrolet S-10 "EL"
5-speed	Standard	N/A	N/A	Standard	Standard
Automatic transmission	Optional	N/A	N/A	N/A	N/A
Double-wall cargo bed	Standard	Optional	Standard	Standard	Standard
Tinted glass	Standard	Optional	N/A	N/A	Optional
Steel-belted radials	Standard	Optional	Standard	Standard	Standard
Full carpeting	Standard	N/A	N/A	N/A	N/A

To find out even more ways Mazda outperforms the competition, contact: Fleet Department, Mazda Motor of America, Inc. 7755 Irvine Center Drive, Irvine, CA 92718. Or call (714) 727-1990.

\*J.D. Power & Associates 1986 and 1987 Compact Truck CSI and 1988 Light-Duty Truck CSI customer satisfaction with product quality and dealer service. \*\*See your Mazda Dealer for limited-warranty information. †Comparisons with other makes based upon available competitive data.



annual Landscape Expo, phone Lerew or Mary Sue Christoffers at (203) 853-0400 or write c/o Edgell Expositions, 50 Washington St., Norwalk, CT 06854.

**INDUSTRY**

**Pesticide groups solve problem—together**

A pro-pesticide and an anti-pesticide group recently set a precedent by actually sitting down and talking to each other instead of facing off against one

another. Involved were members of the Professional Pesticide Users of Connecticut and the Connecticut Clean Water Coalition, an environmental group.

The result of their meetings, which covered the concerns and interests of both sides, was a jointly-sponsored bill which was passed by state legislature.

Two sections of the bill specifically affect pesticide application.

First, a central registry will be created for people wanting prior notification of applications within 100 yards of abutting property.

Secondly, section 1(c) states: "Any person making an outdoor application of a pesticide...shall at the time of such application post a sign notifying the public of the application." Yes, that means homeowners, too.

This inclusion seems partially a result of a study conducted by the Connecticut Agricultural Experiment Station on the amount of pesticides applied and by whom. The study, published last October, notes that while agriculture uses about 33 percent and industrial, commercial and government use about 6 percent, homeowners account for 61 percent of the pesticides applied in the state.

It should be noted that the Connecticut EPA puts that figure at 26 percent for homeowners and the U.S. EPA puts it at 7 percent for "home and garden."

The co-chairperson of the state general assembly, Rep. Mary M. Mushinsky, lauded the unity by presenting the bill's sponsors with a bottle of champagne at the public hearing.

**NATIVES**

**Native wildflowers a way to save \$\$\$**

A study of wildflower mixtures on the market by the National Wildflower Research Center concluded that native species in the mixtures were more successful than non-natives.

"One of the most significant results is that in the first year the majority of species that flower successfully are indigenous," the study states. "They out-perform non-natives by a three-to-one ratio."

The trend continues in the second year as well, and by the third year "100 percent of the species that flower are indigenous," the study concluded.

Natives are better adapted to environmental, climate and soil conditions in a given area and usually survive with little or no maintenance once established. Selecting mixtures containing higher ratios of natives, though more expensive initially, will save on irrigation and maintenance costs in the long term.

**INDUSTRY**

**Consultant warns of anti-chemical warfare**

Industry consultant Alan Caruba warned attendees of the Chemical Specialties Manufacturers Association mid-year meeting of a "deluge of heavily financed, sophisticated environmentalist propaganda."

Equipment for the turf care professional.



**Setting the standards for sweepers.**



Feel like your grass clippings may be getting ahead of you? Try this model 54HL 5' self-propelled sweeper unit with high lift for large area cleanup. 24hp engine, hydraulic-drive, with optional thatcher, sweeps wet or dry materials using 'sure-grip' rubber fingers.

Olathe personnel have been helping solve leaf/debris problems for over 30 years. Ranging in size from our model 42 [36" wide, 5hp tow-behind] to the large area tow units which are the 166e, the 166hl and the 65 PTO (all with 5' width, 5 cu. yd. capacities). Ground and high lift models.



Model 65 PTO-powered 5' width



Model 166e 5' hydraulic ground dump



Model 166hl 5' width, 8 1/2' lift



Model 42 tow — type, 1/2 cu. yd. 5 hp, 3' swath, finger or brush reels.



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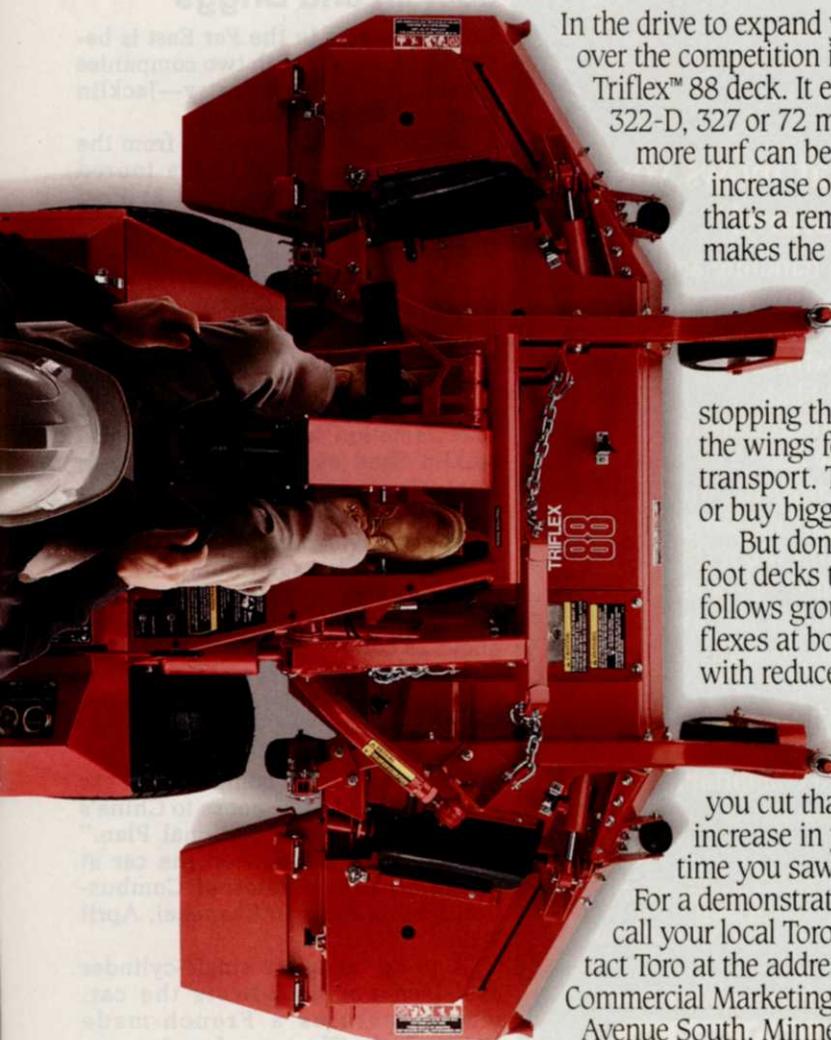
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# Plan A Business Expansion This Year.



In the drive to expand your productivity, Toro has widened the lead over the competition in a most dramatic way. Presenting the new Triflex™ 88 deck. It expands the cutting range of Groundsmaster® 322-D, 327 or 72 models to an incredible 88 inches. That means more turf can be cut with fewer man-hours. A productivity increase of 22% over out-front six foot mowers. Now that's a remarkable achievement in itself. But what really makes the Triflex 88 unique are the movable hydraulic wings on either end of the deck.

By raising both wings, one or neither, you can change your cutting width from 54" to 72" or to 88". And it can be done without stopping the machine or leaving the operator's seat. And the wings fold up conveniently to a width of 72" for easy transport. This eliminates the need to change equipment or buy bigger, more expensive trailers.

But don't let the Triflex's size fool you. Unlike other 6-foot decks that sacrifice quality of cut for size, the Triflex follows ground contours like a 52" cutting unit. The deck flexes at both ends so you can make an 88" cutting pass with reduced risk of scalping. The result is the same uniform quality of cut Groundsmaster is famous for. Including high quality rear discharge dispersion of grass clippings to give all areas

you cut that finished appearance. If you're open to a 22% increase in your productivity, it's time you saw the Triflex 88 for yourself.

For a demonstration or more information, call your local Toro distributor today or contact Toro at the address below. The Toro Company, Commercial Marketing Services, 8111 Lyndale Avenue South, Minneapolis, MN 55420.

**TORO**

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...because, the same Grasshopper that mows your grass and picks up leaves, also clears snow!

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Each is designed Grasshopper tough, for the grounds maintenance pro who doesn't quit when the first snow flies. The snowthrower features heavy-gauge welded steel construction and a 12-inch diameter auger with 3/16-inch flighting. And, of course, it's PTO-driven, so there are no belts to slip when the going gets rough. The discharge spout rotates a full 180 degrees, so you can put the snow where you want it...up to 25 feet away.

What's really amazing, though, is what you can do with quality attachments, mounted outfront, on an agile Grasshopper zero-turn-radius tractor. It turns within its own length and lets you change direction-of-travel instantly, without stopping to shift gears. All, from within a comfortable operator enclosure. Versatility is what it takes...you get it with Grasshopper.

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# GRASSHOPPER

## YOUR NEXT MOWER

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## NEWS from page 16

Speaking to the CSMA Pesticide Division, Caruba noted that pest control industries "produce chemicals which protect billions of dollars of crops, billions of dollars of property and millions of Americans from (numerous) diseases and health threats. But you're not telling the public that."

Caruba criticized chemical manufacturers for not taking on the "toxic terrorists" trying to eliminate many of the chemical tools the industry employs. "You're going to fail in your battle with the toxic terrorists," he warned. "When will the pesticide manufacturers effectively begin to respond with a program of public information, education and relations of its own?"

## INDUSTRY

### Bridging the Pacific helps business at Jacklin and Briggs

Doing business in the Far East is becoming *de rigeur* with two companies serving the green industry—Jacklin Seed and Briggs & Stratton.

A four-person delegation from the People's Republic of China toured seed production facilities at Post Falls, Idaho-based Jacklin Seed earlier this year.

The Chinese are looking for ways to best spend \$47 million on seed conditioning equipment and improved seed during the next 20 years.

Because of serious erosion problems, the People's Republic is in need of reclamation seed to stabilize soils. Jacklin Seed made arrangements to test turfgrass and reclamation seed in six locations in China next year.

International marketing is not new to Jacklin. The seed company has been working with China for about four years and also exports seed to about 25 countries.

Briggs & Stratton is making inroads into the huge Chinese market by developing a gasoline engine-powered mini-car.

According to the company, the car was developed in response to China's seventh "Five Year National Plan." The company introduced the car at the International Internal Combustion Engine Expo in Shanghai, April 7-12.

A 16 hp Model 32 single-cylinder cast-iron engine powers the car, which features a French-made Gateau body. The type of engine previously was used in tractors and mowing equipment.

B&S and Chongqing Puling Machinery Works will manufacture the

*continued on page 21*

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engines under a joint venture agreement for the car and other potential Chinese applications. In addition to the 16 hp engine, the venture group, called Puling-Briggs & Stratton Engine Corp., will build a 10 hp model as well.

The Chinese mini-car will travel at speeds up to 35 miles per hour. It is intended for short-distance use on the new roads China is building to link cities and suburban and rural areas. Other applications could be as a taxi or delivery vehicle.

## LANDSCAPING

### Round house solves maintenance woes

How far will a man go to "get around" maintaining his property? Apparently the full 360 degrees.

That's the case with Ronald Farrell, 55, a commercial fisherman in South Dayton, New York, who decided he'd rather spend his time and money tracking Lake Erie walleye than maintaining his house. He designed and built this circular home in six months by stacking 16-inch lengths of Tamarac wood and mortaring them in place. The walls are eight feet high and support a waterproof roof that is topped by 10 inches of topsoil and seeded with a legume and



Ronald Farrell's round house in South Dayton, NY was inexpensive to build and is easy to maintain.

wildflower mixture.

The house, which rests on his seven acre lot, is exceptionally energy-efficient, cost about as much as a pickup truck and, except for a triannual haircut with an Echo trimmer, is virtually maintenance free.

"More than that, I think it tells the younger fellas that for next to nothing you can have yourself a nice home without the big banks and the big mortgage payments," said Farrell. "If you got the spirit, the get-up-and-go, you can do it."

*continued on page 22*

## Compound controls unwanted tall fescue

A new compound developed through research at Iowa State University selectively controls tall fescue in a number of established grasses.

The compound, chlorsulfuron, is a product of E.I. Du Pont de Nemours marketed by Lesco as Lesco TFC. The dispersible granular herbicide is labeled for established Kentucky bluegrass, fine fescue, bentgrass, bahiagrass and Bermudagrass.

Tests on annual bluegrass tolerance were inconclusive, in one instance showing tolerance, and in another showing damage, according to Nick Christians, Ph.D., Iowa State. The product will kill perennial ryegrass.

The compound was originally tested as a low-use-rate broadleaf weed controller. But it also discolored tall fescue contaminating Kentucky bluegrass plots, leading to tests to control tall fescue by Christians and D.J. Laroque at Iowa State in 1982 and 1983.

Greenhouse trials showed chlorsulfuron's effect on tall fescue was slow, taking four weeks to show signs of damage, eight for complete kill. The compound was also effective in fall



uses even when the tall fescue went into dormancy.

### PRODUCTS

## Carpet produces lightweight sod

Fast Grass, Inc. is trying to take some of the backache out of laying sod.

The Oxnard, Calif., company purchased the rights to manufacture and distribute a jute and hemp carpet in-laid with grass seed at the factory. When rolled out on plastic and watered, the carpet produces a saleable stand of turf in about 45 days. Without dirt.

The carpet, developed and tested successfully in Europe, weighs about 70 pounds in a four- by 100-foot roll. When the turf is grown, the roll is cut into 25-foot sections for easy handling by one person. This is considerably less burdensome than the average roll of conventional sod.

Because of this, the owners of Fast Grass—Doug Cowle and Evan Melby—are hoping to sell the product to sod farmers, landscapers and even homeowners. They see a day when the homeowner can go into the supermarket, buy a 50-square-foot roll and grow it themselves to replace dead spots. The carpet could also have a home on golf courses and in areas requiring erosion control.

The two men estimate the cost of the carpet will be about the same as dirt-grown sod, but that the carpet can lead to savings in labor and water costs. Large harvesting equipment won't be needed, and less water is

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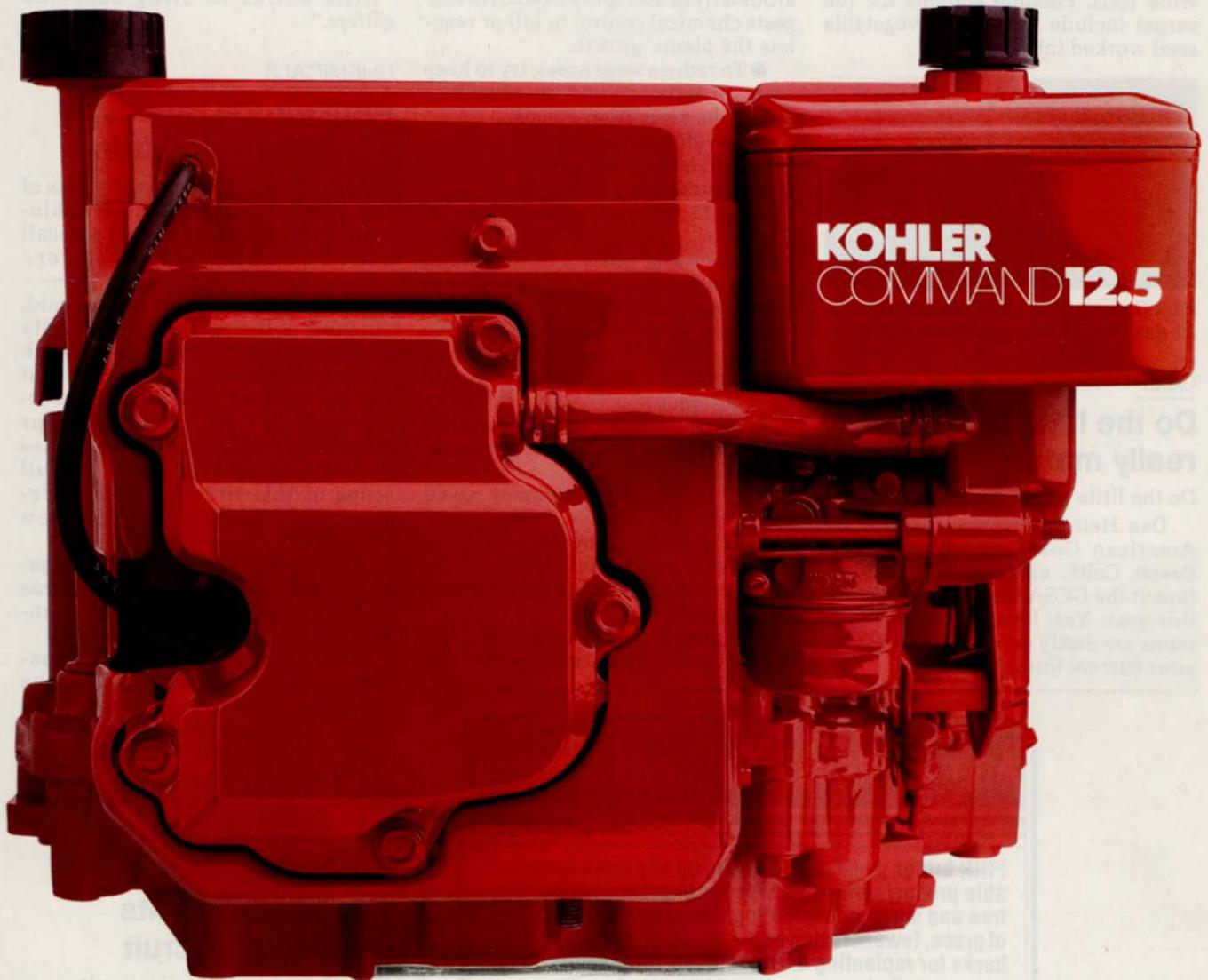
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Kohler Command vertical shaft engines are available with an optional Quiet Plus™ package that lowers sound level output significantly.

In fact, in a recent test performed at the Kohler engine sound laboratory, the CV 12.5 with Quiet Plus registered sound power levels two to four dBA's below three competitive engines of similar horsepower.

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stringent EEC noise standards without sacrificing torque or power.

Command engines also offer overhead valves; Kohler's electronic ignition system; full pressure lubrication; full flow oil filters; hydraulic lifters and more. Oil Sentry™ protection is available.

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engines

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used since the plastic underlay keeps more moisture in the root area.

In addition to the four-foot-wide roll, the carpet also comes in 12-foot-wide rolls. Possible spinoffs for the carpet include flower and vegetable seed worked into the fabric.



**Fast Grass on its plastic liner after 22 days exhibits a good stand of turf.**

## GOLF

### Do the little things really matter?

Do the little things really matter?

Dan Hein, a regional director for American Golf Corp. in the Long Beach, Calif., area, asked this question at the GCSAA conference earlier this year. Yes, he answered. "These items are easily accomplished within your current budget."

So what can be done? To start with, economize, Hein stresses.

- Eliminate or reduce time-consuming tasks such as trimming grass around trees and spray heads. He suggests chemical control to kill or regulate the plants' growth.

- To reduce wear areas, try to keep carts off fairways and on roughs or cart paths away from greens.

- Leveling irrigation heads, Hein says, will also speed up mowing.

- A fertigation system is a way to eliminate manual applications of fertilizer.

- Use water sensors to streamline use of irrigation water, using only when necessary. Preventive maintenance on equipment will also save money, he says. A thorough wash and post-operative maintenance should be standard.

- Properly training operators and then organizing the maintenance area also help.

And then, "put the money saved back into the course," Hein says. American golf goes by the concept of clean and green, Hein notes. "Use cleansers and paint to keep the course looking good."

Keeping ballwashers rust-free, painted and with a fresh towel is one

way, he believes. Also, little things like clean walkways with plant borders, 150-yard markers and even contouring roughs improve appearance, "little extras to bring back the golfers."

## CHEMICALS

### PBI/Gordon recalls Teremec fungicide

PBI/Gordon is recalling all stocks of the fungicide Teremec SP (chloroneb) following receipt of a recall notice from the manufacturer/formulator.

The company's press release said, "In view of the recent phytotoxicity problem which has developed with some of the chloroneb fungicide that was formulated by Drexel, we recommend that you advise all your customers and (end users) to not use or sell this product until the full scope of this situation can be determined. We will keep you advised."

PBI/Gordon is making arrangements with distributors for returns of all Teremec SP, broken or unbroken, for credit.

Courses affected by contamination range from Atlanta, Ga. up the Atlantic seaboard into southern New York and as far west as Denver.

At press time, PBI/Gordon was investigating the situation and planned to release a statement in late August.

## ACADEMIA

### Hort departments starting to recruit

The Department of Horticulture at Virginia Polytechnic Institute recently began a recruiting program to draw prospective students into its horticulture program.

The program is spearheaded by department head and professor Thomas A. Fretz and professor Paul Smeal.

The two are appealing to current horticulturists who know people with an interest in plants, horticulture and/or botanical science. Names of prospective students will be sent to Smeal at VPI so that the department can follow up by sending information regarding the program and the school.

This information includes a brochure produced by the department which gives information about the university, brief explanations of horticulture and career opportunities in horticulture.

*Continued on page 26*

## Attn: Professional Landscapers

**FINN** brings you a complete lineup of proven consumable products which provide for improved methods of tree and shrub transplanting, faster and better stands of grass, fewer erosion problems, and eliminates call-backs for replanting and reseeding. The result will be more satisfied customers and increased profits.

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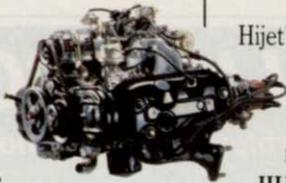
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Smeal notes that the opportunities for horticulturists are excellent since about five to 10 positions are available for every graduate.

#### DEALERS

### Deere distributors now selling seed

Turf-Seed Inc. of Hubbard, Ore., has entered into an agreement with the John Deere Golf & Turf Group to provide proprietary turf cultivars for sale by the 50 Deere distributors in the U.S. and Canada.

"Providing turf seed is another way we intend to provide our distributors and customers with products and services that help superintendents increase productivity and maintain high standards of turf quality," says Ken Edwards, manager of golf and turf products at Deere.

Turf-Seed president Bill Rose says that Bill Meyer, Ph.D., and Crystal Rose Fricker will research new varieties for Deere's distribution. "We appreciate the opportunity to work closely with a quality-conscious organization like John Deere," Rose says.

#### LITERATURE

### New newsletter serves landscapers

*In-site* is a new bi-monthly newsletter written specifically for landscape management executives. It takes a practical "how-to" approach to the science of landscape management.

The editorial staff of the newsletter includes experts in many of the landscape design and management disciplines including horticulture, architecture, agronomy, urban forestry, arboriculture and advanced business management.

To receive a complimentary issue of *In-site*, send a post card with your name, title, company name and address to: *In-site* editor, 24380 N. Highway 45, Vernon Hills, IL 60061 or call (312) 634-8888.



#### Gravely International

Runners competing in the Gravely International Five-Mile Run start a course that winds through scenic backroads in rural North Carolina and ends up here—the headquarters of Gravely International, manufacturer of outdoor power equipment. The race was a highlight of the festivities that surrounded the Third Annual Gravely Open House, held at Gravely's Clemmons, N.C., headquarters at the end of May. Runners from as far away as California competed.

*New*

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# A LANDSCAPERS' HOME LIBRARY

Every once in a while, landscape managers must confront problems for which they don't have immediate answers. If they knew the vast array of books, brochures, video tapes and pamphlets available for turf and tree care, references would be no problem.

Here are some of the publications and videos being made available to the turf and tree manager which have crossed the LANDSCAPE MANAGEMENT editorial desks in the last few months. Some are free, others have prices up into the hundreds of dollars:

**ATHLETIC TURF:** "Developing with Recreational Amenities," book, \$48; Urban Land Institute, 1090 Vermont Ave. NW, Washington, DC 20005.

**ATHLETIC TURF:** "Sidelined" and "Hard Knocks," reprints from LANDSCAPE MANAGEMENT, \$5.50 each, both for \$8; Kathleen Maciuszko, HBJ Publications, 7500 Old Oak Blvd., Cleveland, OH 44130.

**ATHLETIC TURF:** "Athletic Fields—Specification Outline, Construction and Maintenance," booklet, free; John C. Harper II, Ph.D., Dept. of Agronomy, Penn State University, University Park, PA 16802.

**ATHLETIC TURF:** "Athletic Field Construction and Maintenance," by D.H. Taylor, G.R. Blake and D.B. White, booklet, \$1; Distribution Center, Extension Service, Coffey Hall, University of Minnesota, St. Paul, MN 55108.

**BUSINESS:** "Managing Service for Success," by John R. Beck, book, \$25 + \$3 shipping and handling; International Pest Management Consultants, 3631 W. Pasadena, Phoenix, AZ 85019.

**BUSINESS:** "Marketing Plan Manual," 34 pages, free to new G.C.A. members, \$25.00 to others; Golf Course Association, 8030 Cedar Ave. Suite 228, Minneapolis, MN 55420.

**BUSINESS:** "Collection Strategies and Techniques" by R.D. Rutherford, 120 pages, \$19.95; National Association of Credit Management, Publications Division, 520 Eighth Ave., New York, NY 10018-6571.

**CEMETERIES:** "The More Objections the Better" by Eric S. Marmorek, book, \$10.95 for ACA members, \$14.95 for non-members; American Cemetery Association, 5201 Leesburg Pike, Suite 1111, Falls Church, VA 20041.

**DESIGN:** "The Art of Landscaping



Design," videotape series, \$179.70 for six or \$359.40 for 12; United Home Video, 4111 S. Darlington, Suite 600, Tulsa, OK 74135.

**DISEASES:** "The Nature of Wilt Diseases of Plants" by C.H. Beckman, 132 pages, \$34; APS Books, 3340 Pilot Knob Rd., St. Paul, MN 55121.

**DISEASES:** "Methods for Evaluating Pesticides for Control of Pathogens," 300 pages, \$59; American Phytopathological Society, 3340 Pilot Knob Rd., St. Paul, MN 55121.

**ENDANGERED WILDFLOWERS:** Endangered Wildflowers calendar, \$6.95; Wildflower Rediscovery Project, American Horticultural Society, P.O. Box 0105, Mt. Vernon, PA 22121.

**ENGINE REPAIRS:** "Troubleshooting Carburetors" and "Understanding Ignition Systems," videotapes, NPL; Tecumseh Engine and Gear Service Div., 900 North St., Grafton, WI 53024.

**ESTIMATING:** "Estimating and Management Principles for Landscape Contractors," 150 pages, \$51; Charles Vander Kooi, P.O. Box 621414, Littleton, CO 80162.

**FACILITIES:** "Facilities Management," 864 pages, \$70 (\$50 to members of APPA); Association of Physical Plant Administrators of Colleges and Universities, 1446 Duke St., Alexandria, VA 22314-3492.

**GOLF COURSES:** "Planning the Municipal Golf Course," 12 pages, free; American Society of Golf Course Architects, 221 N. LaSalle St., Chicago, IL 60601.

**GOLF COURSES:** "Evolution of the Modern Green" by Michael A. Hurdzan, Ph.D., brochure, \$5, American Society of Golf Course Architects, 221 N. LaSalle St., Chicago, IL 60601.

**HAZARDOUS WASTE:** "Hazardous Waste Regulation, the New Era" by Richard C. Fortuna and David J. Lennett, 400 pages, \$59.50; McGraw-Hill, P.O. Box 400, Hightstown, NJ 08520-9989.

**HAZARDOUS WASTE:** "Hazard Classification Systems," 212 pages, \$52; "OHSAs Right to Know: Hazardous Chemicals," 250 pages, \$70; "Right to Know," 270 pages, \$65; "Using the Hazardous Waste Manifest," 304 pages, \$55; "Directory of State Hazardous Waste Officials," 200 pages, \$35; all available from Hazardous Materials Information Center, 62 Washington St. Suite 30, Middletown, CT 06457.

**INSECTS:** "Controlling Lawn and Garden Insects," 96 pages, \$6.95; available in garden stores coast to coast; more information: Ortho Information Services, 575 Market St., San Francisco, CA 94105.

**INTEGRATED PEST MANAGEMENT:** "Least Toxic Lawn Management," 26 pages, \$6.10; BIRC, P.O. Box 7414, Berkeley, CA 94707.

**IRRIGATION:** "Quik-Pro Irrigation Guide," 70 pages, NPL; KKW Inc., 20470 Corsair Blvd., Hayward, CA 94545.

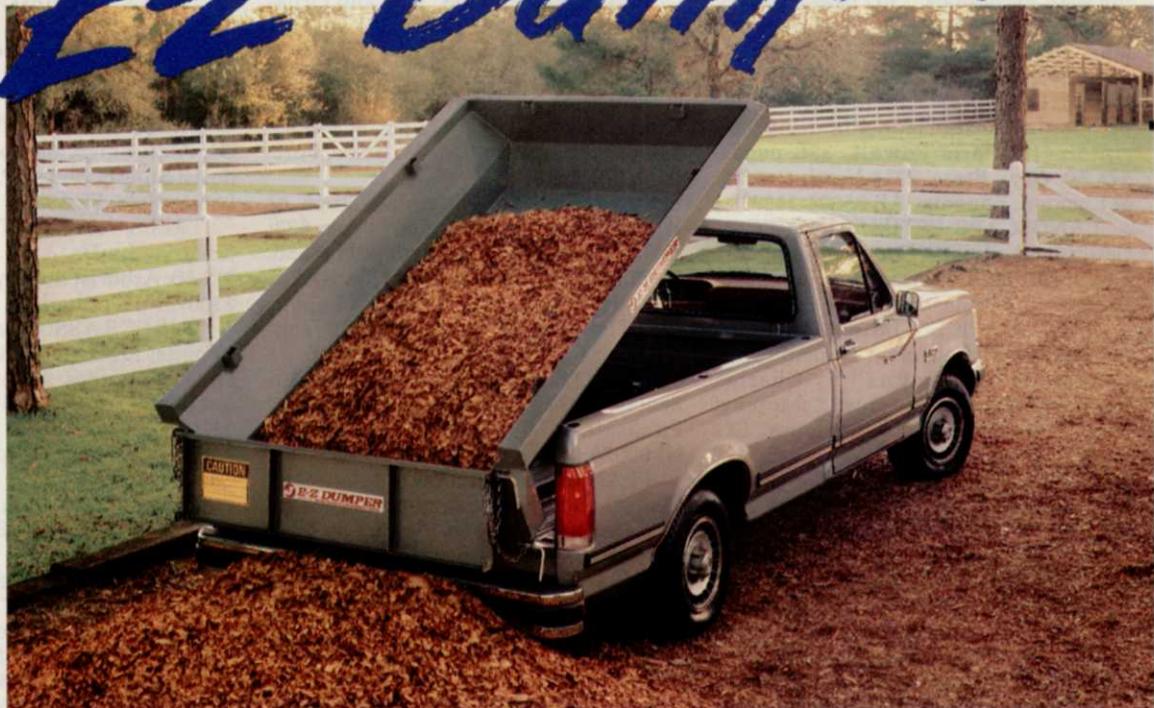
**IRRIGATION:** "Turf Irrigation Manual" by James A. Watkins, book, more information from Weather-matic, P.O. Box 18205, Dallas, TX 75218.

**LANDSCAPE DESIGN:** "Fast and Effective Plan View Drawing Methods," "Color Rendering Techniques for Presentation Drawings," 90 and 75 minutes, \$95.95 each, \$155 together; The Idea Bank, 1000 E. Apache Blvd., Suite 211, Tempe, AZ 85281.

**LANDSCAPE DESIGN:** "Residential Landscapes: Graphics, Planning, Design" by Gregory M. Pierceall; book, Reston Publishing c/o Prentice-Hall, Book Distribution Center, Route 59 at Brook

NPL—no price listed

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HEADQUARTERS 1-800-248-6000, PA only 1-800-842-4000. Other offices located in St. Louis, MO., Chicago, IL., Atlanta, GA., Cincinnati, OH., Los Angeles, CA., Dallas, TX., In Canada, H.R. Runciman & Co., Ltd.



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Hill Drive, West Nyack, NY 10994.

LANDSCAPE DESIGN: "Landscaping with Perennials," 302 pages, \$34.95; Timber Press, 9999 S.W. Wilshire, Portland, OR 97225.

LANDSCAPE DESIGN: "Bibliography of Landscape Architecture, Environmental Design and Planning" by Antoinette Paris Powell, 356 pages, \$74.50; Oxry Press, 2214 North Central at Encanto, Phoenix, AZ 85004-1483.

LANDSCAPE ESTIMATING: "Cost Data for Landscape Construction," 232 pages, \$37.50; Kerr Associates, 1942 Irving Ave. S, Minneapolis, MN, 55403.

LANDSCAPE ESTIMATING: "Estimating and Management Principles for Landscape Contractors" by Charles Vander Kooi, book, \$49 plus \$2 shipping; CVK, P.O. Box 621414, Littleton, CO 80162.

LANDSCAPE ESTIMATING: "Means Landscape Estimating" by Sylvia Hollman Fee, 225 pages, \$41.95; R.S. Means, 100 Construction Plaza, Kingston, MA 02364.

LAWN CARE: "Common Sense Answers to Turf Care Questions," video, \$20; Professional Lawn Care Assn. of America, 1225 Johnson Ferry Rd. NE, Suite B-220, Marietta, GA 30068.

LAWN CARE: "A Lawn Care Professional's Guide to Developing a Marketing Plan," \$20 PLCAA members, \$40 non-members; PLCAA, 1225 Johnson Ferry Rd., Suite B-220, Marietta, GA 30068.

LAWN CARE: Total Turf Management Program (booklets, reports), NPL; Communications Dept., Nor-Am Chemical Co., P.O. Box 7495, Wilmington, DE 19803.

LAWN CARE: "Media's Lawn Care Score," brochure, NPL; PLCAA, 1225 Johnson Ferry Rd., Suite B-220, Marietta, GA 30068.

LIGHTING: National Lighting Bureau, brochure on security and outdoor lighting, free; National Lighting Bureau, 2102 L. St., NW, Suite 300, Washington, DC 20037.

ORNAMENTALS: "Compendium of Ornamental Foliage Plant Diseases" by A.R. Chase, 92 pages, \$20; APS Books, 3340 Pilot Knob Rd., St. Paul, MN 55121.

PESTICIDES: "Lawn Care Chemicals: What Consumers Should Know," booklet, 75 cents plus \$3 handling per 25 copies; PLCAA, 1225 Johnson Ferry Rd., Suite B-220, Marietta, GA 30068.

PESTICIDES: "Working with Pesticides," two videos, \$149.95; The Idea Bank, P.O. Box 23994, Tempe, AZ 85282.

PESTICIDES: "The 1987 Pesticide Directory," book, \$75; Thomson Publications, P.O. Box 9335, Fresno, CA 93791.

PESTICIDES: "1987 Newly-Revised Insecticide, Herbicide, Fungicide Quick Guide," book, \$14.50; Thomson Publications, P.O. Box 9335, Fresno, CA 93791.

PESTICIDES: "Working with Pesticides" videotape; more informa-

tion from Direct Safety Co., 7815 S. 46th St., Phoenix, AZ 85044.

PESTICIDES: "Tree, Turf and Ornamental Pesticide Guide," \$14.00 plus tax; Thomson Publications, P.O. Box 9335, Fresno, CA 93791.

PLANTS: "A Handbook of Annuals and Bedding Plants," 273 pages, \$24.95; Timber Press, 9999 S.W. Wilshire, Portland, OR 97225.

PLANTS: "The Complete Book of Woody Ornamental Plants," book, \$23; H.G. Inc., P.O. Box 640, Piqua, OH 45356.

PLANTS: "Manual for Plant Appraisers," book, \$30.00; Ohio Chapter, ISA, The Dawes Arboretum, 7770 Jacksontown Rd. SE, Newark, OH 43055.

PLANTS: "Hortus Third" by John Seeley, 1,034 pages, \$99.50; MacMillan Publishing, 100 H Brown St., Riverside, NJ 08075.

PLANTS: "Production of Landscape Plants" and "Establishment and Maintenance of Landscape Plants" by Carl Whitcomb, 480 pages and 618 pages respectively, \$28.00 each; Lacebark Publications, Route 5, Box 174, Stillwater, OK 74074.

PLANTS: Nursery/Landscape Plant Identification cards (116-card set), \$40; University of Illinois, Vocational Agriculture Service, College of Agriculture, 1401 S. Maryland Dr., Urbana, IL 61801.

PLANTS: "Improving the Quality of Urban Life with Plants," book, \$21.25; Amy King, Institute of Ecosystems Studies, Cary Arboretum, Box AB, Millbrook, NY 12545.

PLANTS: "The Reference Manual of Woody Plant Propagation" by Michael A. Dirr and Charles W. Heuser Jr., 240 pages, \$31.85; Varsity Press, 1240 Hollow Creek Lane, Watkinsville, GA 30677.

SAFETY: "Fire Safety," VHS videotape, \$60; Lisa M.K. Zetterberg, 6650 Belleau Wood Lane #209, Sacramento, CA 95822.

SAFETY: "Accident Prevention" and "Pesticide Application Techniques" videotapes; more information from National Arborist Association, 174 Route 101, Bedford, NH 03102.

SAFETY: Products for safety, 44 pages, catalog supplement, free; Direct Safety Co., 7815 S. 46th St., Phoenix, AZ 85044.

TREES: "The Tree Worker's Manual," \$7; Ohio Agricultural Education Curriculum Materials Service, Room 254, 2120 Fyffe Rd., Ohio State University, Columbus, OH 43210-1099.

TREES: "Arboriculture" by Richard W. Harris, 680 pages; more information from Prentice-Hall, Englewood Cliffs, NJ 07632.

TREES: "On Target" (tree spraying), 3 videotapes, \$150 NAA members, \$300 non-members; National Arborist Association, 174 Route 101, Bedford, NH, 03102.

TREES: "Pruning Your Own Shrubs and Small Trees," 51-minute videotape, \$37.95; Agricultural Communications

Center, University of Idaho, Moscow, ID 83843.

TREES: "Professional Tree Care Safety," 4 videotapes, \$200 NAA members, \$400 non-members; National Arborist Association, 174 Route 101, Bedford, NH 03102.

TREES: "A New Tree Biology," by Dr. Alex Shigo, 597 pages, \$48.50; Arborist Supply House, P.O. Box 23607, Ft. Lauderdale, FL 33307.

TREES: "A New Tree Biology Dictionary," by Dr. Alex Shigo, 132 pages, \$12.50; Arborist Supply House, P.O. Box 23607, Ft. Lauderdale, FL 33307.

TURFGRASS: "Lawns" by Jonas Vengris, Ph.D. and William A. Torello, Ph.D., 240 pages, \$15.50; Thomson Publications, P.O. Box 9335, Fresno, CA 93791.

TURFGRASS: "Turfgrass for Lawn Care," "Turfgrass for Golf Courses," 2 videotapes, \$20 each; Lofts Inc., Research Dept., P.O. Box 146, Bound Brook, NJ 08805.

TURFGRASS: "Turfgrass Management, Revised Edition" by A.J. Turgeon; more information from Reston Publishing, c/o Prentice-Hall, Book Distribution Center, Route 59 at Brook Hill Drive, West Nyack, NY 10994.

WATER: "Turfgrass Water Conservation," book, \$10; Cooperative Extension, UC-ANR Publications, 6701 San Pablo Ave., Oakland, CA 94608-1239.

WATER: "Water Quality Reference Guide," 8 pages, free; Water Management People, Aquatrols Corp., 1432 Union Ave., Pennsauken, NJ 08110.

WEEDS: Weed identification fact sheets, 16 pages, \$5; Publications Distribution Center, 112 Agricultural Administration Bldg., University Park, PA 16802.

WEEDS: "Weed Control Manual," book, \$23 + \$2 postage and handling; Meister Publishing, 37841 Euclid Ave., Willoughby, OH 44094.

WEEDS: "How to Identify and Control Water Weeds and Algae," 108 pages, \$6.95; Applied Biochemists, 5300 W. County Line Rd., Mequon, WI 53092.

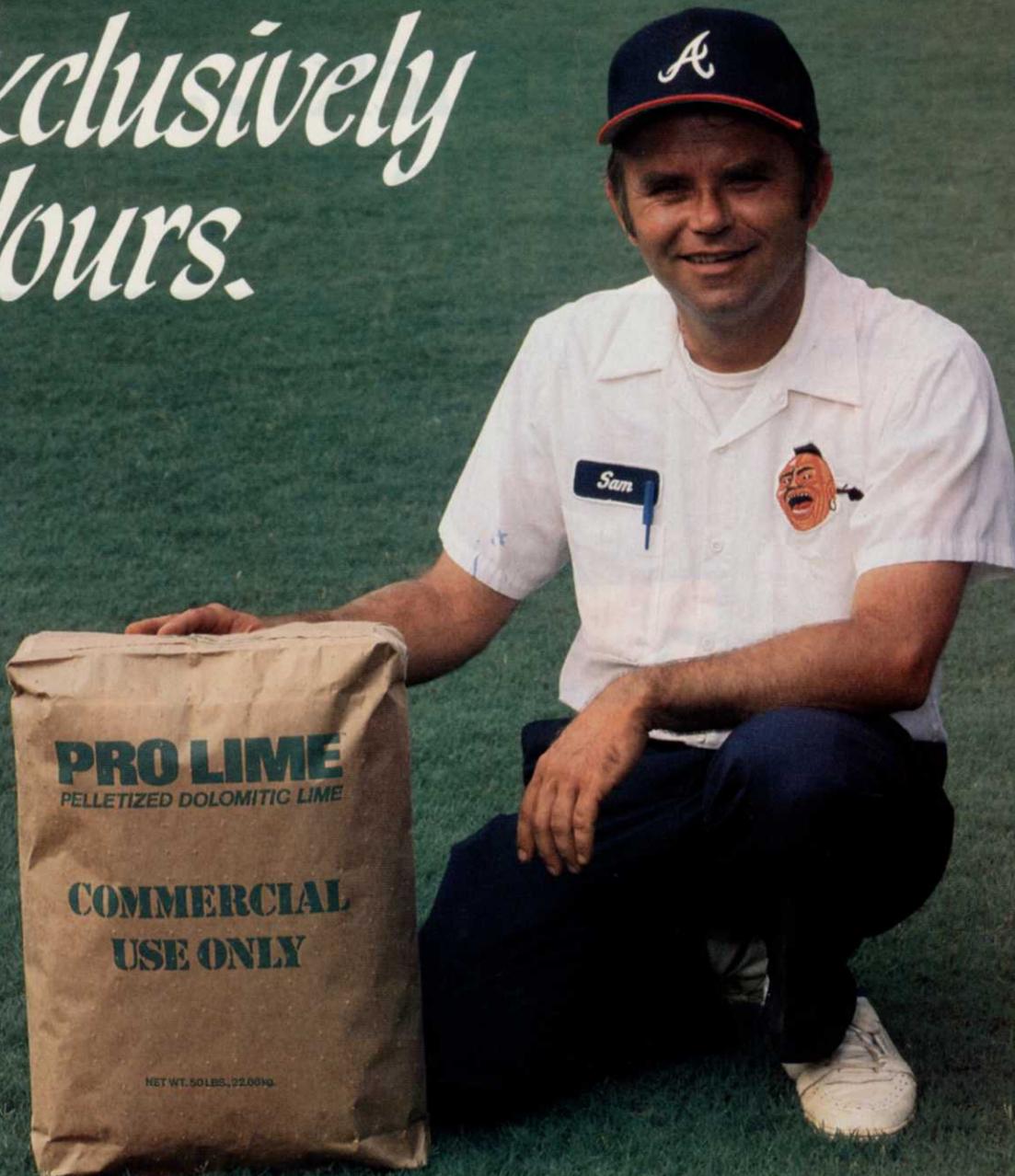
WEEDS: "Nursery and Landscape Weed Control Manual" by Robert P. Rice Jr., book, \$19.95, Thomson Publications, P.O. Box 9335, Fresno, CA 93791.

MISCELLANEOUS: "Careers in a Growing Industry," free; Elaine Thompson, California Association of Nurserymen, 1419 21st St., Sacramento, CA 95814.

MISCELLANEOUS: "Careers in the Landscape-Horticulture Industry," 20-minute videotape, \$79; The Idea Bank, 1000 E. Apache Blvd., Suite 211, Tempe, AZ, 85281 or California Landscape Contractors Association, 2226 K St., Sacramento, CA 95816.

MISCELLANEOUS: Buyer's guide, brochure, free; Western Wood Preservers Institute, 5830 Oberlin Dr., San Diego, CA 92121. **LM**

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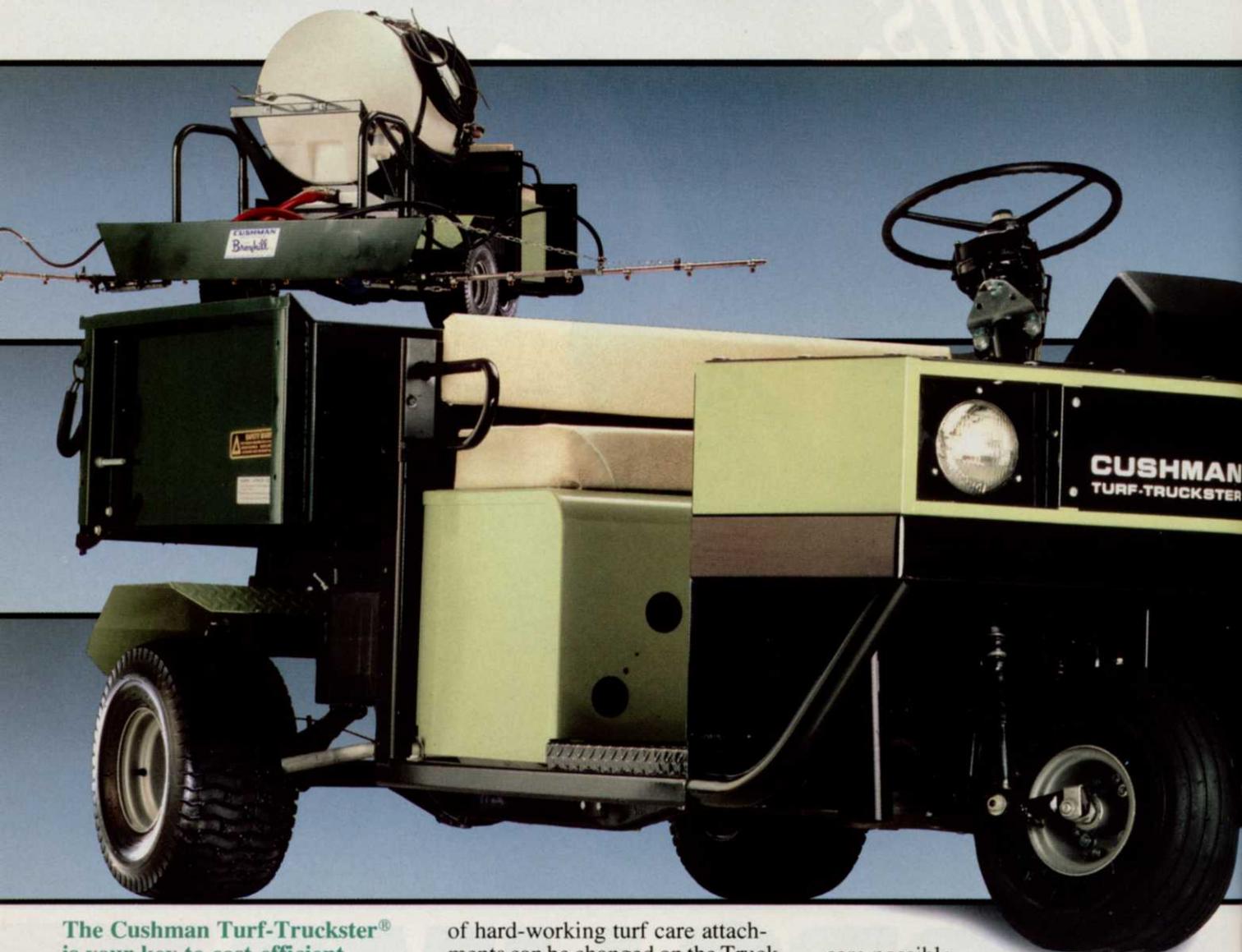
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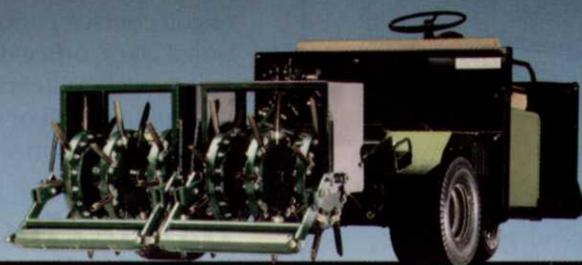
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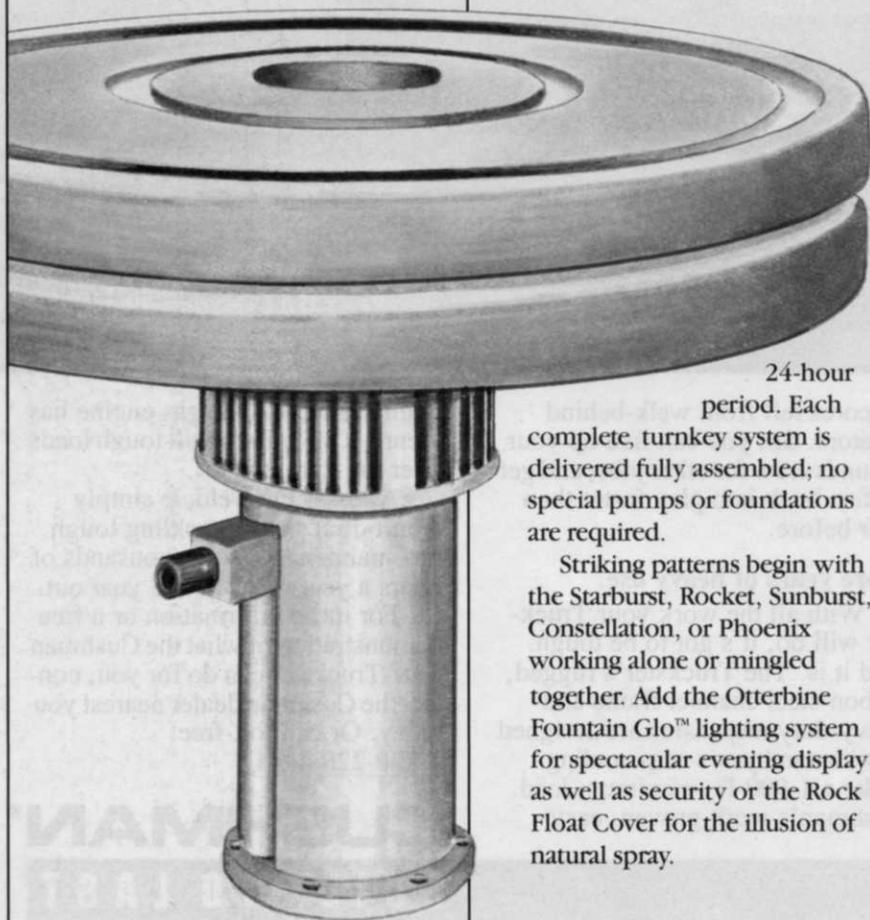
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# BUYER'S GUIDE

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## 1. Equipment

### Aerators, Aquatic

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Barebo Inc/Otterbine  
Deere & Co

### Aerators, Soil

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Outdoor Products & Supply Inc  
Playworld Systems  
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Bush Hog  
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Cushman  
Dandl Mfg Co  
Deere & Co  
Deutz-Allis Corp  
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R L Parsons & Son  
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J I Case Outdoor Power Equipment Div  
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Deutz-Allis Corp  
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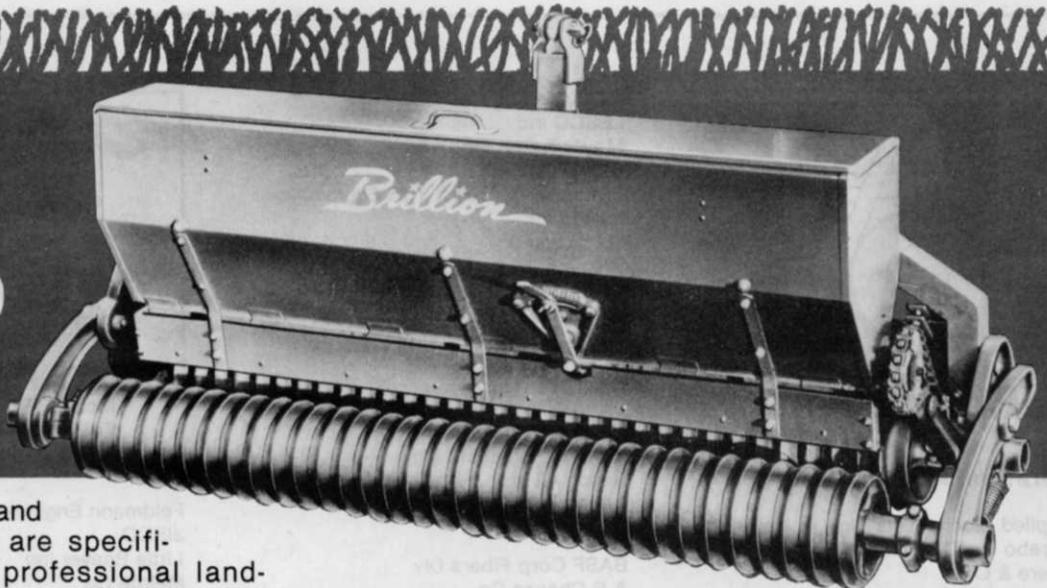
### Blowers

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Brillion, WI 54110  
Tel (414) 756-2121

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Phone (\_\_\_\_\_) \_\_\_\_\_

Circle No. 104 on Reader Inquiry Card



## WE NEVER STOP PUSHING FOR PERFECTION

More people find more reasons to get behind Ransomes Bobcat than any other mid-size mowers. Because we never stop getting great ideas for improving them. Like our new ultra-durable, double-wide belt for truly uninterrupted mowing. Or our exclusive quick-lock caster clips for dependable wheel security. For landscaping and grounds-keeping, remember; no one puts more new features on a wider selection of commercial mowers (32" to 54" cutting widths) than Ransomes. The best selling mid-size mowers in the world.

To see more great ideas, get started at your Ransomes distributor. Or call Ransomes, Inc., One Bob Cat Lane, Johnson Creek, WI 53038, (414) 699-2000.

**RANSOMES**

**BOB-CAT®**

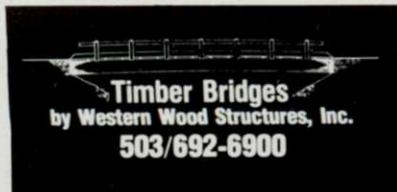
WHERE GREAT IDEAS START

Circle No. 274 on Reader Inquiry Card

## Equipment

continued

Western Wood Structures Inc



### Brush Cutters, Hand Held

Ames Co  
Bunton Co  
Deere & Co  
DOB Distributors Inc  
Hoffco Inc  
Homelite Div  
Jacobsen Div  
Lawnboy Product Group  
Maruyama US Inc  
Seymour Mfg Co  
Shindaiwa Inc  
Snapper Power Equipment  
Solo Inc  
Yazoo Mfg Co

### Brush Cutters, Right-of-Way

Bomford & Evershed Ltd  
Bush Hog

Howard S Crane Inc  
Deere & Co  
Green Machine  
Ingersoll Equipment Co  
Kinco Mfg  
Massey-Ferguson Inc  
R L Parsons & Son  
Rousseau  
Royer Foundry & Machine Co  
Tanaka Kogyo (USA) Co Ltd

### Bucket Lifts

Bomford & Evershed Ltd  
Howard S Crane Inc  
Guest Industries Inc  
Promark Products Inc  
Reach All Inc  
Strong Mfg Co  
Westendorf Mfg Co

### Carts, Lawn

Ames Co  
Brinly-Hardy Co  
Country Mfg Inc  
Earl J Crane Inc & Assocs  
Howard S Crane Inc  
Deere & Co  
Falkenberg  
FXG Corp

Gravely Intl Inc  
Ingersoll Equipment Co  
Kuker Industries  
Precision Products Inc  
Simplicity Mfg Inc

### Chain Saws

Deere & Co  
Fairmont Hydraulics  
Green Machine  
Homelite Div  
Shindaiwa Inc  
Solo Inc  
Stanley Hydraulic Tools

### Chain Saw Parts

Deere & Co  
Green Machine  
Power Lawnmower Parts Inc  
Shindaiwa Inc

### Chippers

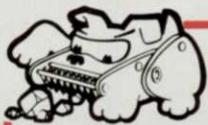
Arbortech/A Scott Fetzer Co  
Badger Chipper Co  
Chipmore Mfg Co  
Lindig Mfg Corp  
Morbark Industries Inc  
Olathe Mfg Inc  
Promark Products Inc  
Roto-Hoe Co  
Royer Foundry & Machine Co  
Vermeer Mfg Co

### Cultivators

Ames Co  
Bolens Corp  
Bomford & Evershed Ltd  
Bush Hog  
Classen Mfg  
Deere & Co  
Feldmann Engineering & Mfg Co  
Ford New Holland Inc  
Gravely Intl Inc  
Green Machine  
Hoffco Inc  
Howard Rotavator Co  
Mathews Co  
Solo Inc  
Vicon Farm Machinery Inc

### Dethatchers

Ariens Co  
BlueBird Intl  
Brinly-Hardy Co  
Brouwer Turf Equipment Ltd  
Bunton Co  
J I Case Outdoor Power Equipment Div  
Classen Mfg  
Earl J Crane Inc & Assocs  
Cushman  
Dandl Mfg Co  
Deere & Co  
Deutz-Allis Corp  
Exmark Mfg Co  
Fuerst Brothers Inc  
Goossen Industries  
Gravely Intl Inc  
Hahn Inc  
Hoffco Inc  
Howard Rotavator Co  
Jacobsen Div



## ROCKHOUND TEACHES THE ABC'S OF GROUND PREPARATION

### A SERIES ROCKHOUND



Dumping



Skid Steer Mount

(Hydraulic)



3 Point Mount

### B SERIES ROCKHOUND



Open bottom—Hydraulic Drive. Rocks are raked to a convenient windrow for later pickup.



**COST EFFECTIVE ROCKHOUNDS** Rake and collect rocks and surface debris, leaving the soil in a fluffy, level, seed-bed quality condition.

*It does not cost to own a Rockhound ... IT PAYS!*

1-800-426-5615

KEM ENTERPRISES, INC.

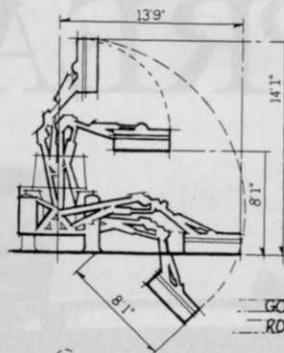
18425 Eighth Ave. S.W., Seattle, WA 98166

Circle No. 134 on Reader Inquiry Card

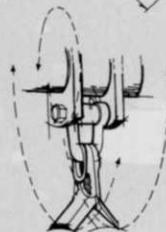
**It used to be  
a real jungle  
around here  
till I got my  
new Rousseau.**

**You have to  
see it to  
believe it...  
nothing, but  
nothing cuts  
through every-  
thing like a  
new Rousseau.**

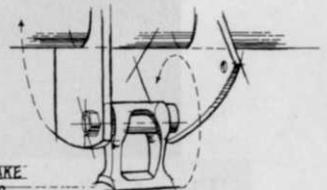
Words won't do it. You have to come to a Rousseau field demonstration yourself. And watch our big, complete line of mowing, trimming and clearing equipment in action. Call us now. Rousseau is going to change your mind.



GO ANYWHERE...  
ROUSSEAU HAS THE REACH.

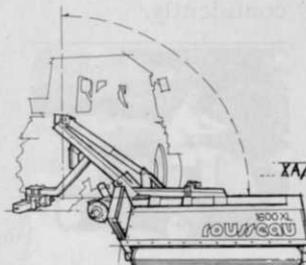
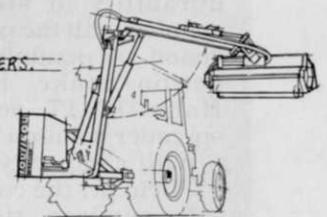


FORGED STEEL BLADES = BEST EVER  
IN GRASS OR LIGHT BRUSH.



HEAVY DUTY BLADES MAKE  
SHORT WORK OF YEARS  
OF UNMOWN GROWTH.

M-SERIES ARM MOWERS.



XA/XL MULTI-KNIFE MOWERS.

**rousseau**

Because it's a real jungle out there.

Rousseau Inc. 8433 Mid-County Industrial Drive  
St. Louis, MO 63114 Tel. (314) 426-7377

## Equipment

continued

F D Kees Mfg Co  
Kinco Mfg  
LESCO Inc  
Olathe Mfg Inc  
R L Parsons & Son  
Roseman Co  
Salsco Inc  
Yard Vac Products Inc

### Dozers

Bomford & Evershed Ltd  
Deere & Co

Deutz-Allis Corp  
Grasshopper Co

### Drainage Tubing

A C F Inc  
Advanced Drainage Systems Inc  
Cambridge Soil Services of America Inc  
Hancor Inc  
LESCO Inc  
Warren's Turf Nursery Inc

### Drills

Bush Hog  
Feldmann Engineering & Mfg Co  
JISCO  
Olathe Mfg Inc  
Stanley Hydraulic Tools  
Strong Enterprises Inc  
Tanaka Kogyo (USA) Co Ltd

### Dusters

B & G Equipment Co  
Encap Products Co  
Green Machine  
Maruyama US Inc  
Professional Tree & Turf Equipment  
D B Smith & Co  
Solo Inc  
Southern Mill Creek Products Co  
Strong Enterprises Inc  
Trebor Corp  
Westheffer Co

### Edgers

Ames Co  
Bunton Co  
Earl J Crane Inc & Assocs  
Curb King

# Hahn

## The HAHN Pendulum Action SPREADER



### The Ultimate In Precise Fertilizer Application

The strength and durability of steel coupled with the precision of pendulum action make the Hahn PA-17 your spreader solution.

With a capacity of 17.1 cu. ft., the conical seamless steel hopper ensures free flow of all materials... fertilizers, seed, lime or sand.

Infinite arc adjustment and multiple flow settings allow you to calibrate the PA-17 accurately and confidently.



Available for 3-point hitch mounting or as an attachment for the Hahn Multi-Pro 418. From Hahn, the leaders in application equipment.

For a free demonstration call your nearest distributor or: 1-800-457-HAHN in Indiana 812-428-2020

## Hahn

1625 N. Garvin Evansville, IN 47711



**CURB KING**-Continuous concrete landscape borders. Low investment and high returns. **(303) 434-5337**

Deere & Co  
Excel Industries Inc  
Green Machine  
Hoffco Inc  
Homelite Div  
Jacobsen Div  
LESCO Inc  
Steiner Turf Equipment Inc  
Tanaka Kogyo (USA) Co Ltd  
Wheel Horse Products Inc

### Edging, Lawn

A C F Inc  
Earl J Crane Inc & Assocs  
Deere & Co  
Eberhart Steel Products Plastic Div

## EDGELOCK

*The only interlocking lawn edging system*

### EBERHART STEEL PRODUCTS

PLASTICS DIVISION

417 E. Jefferson Blvd.

MISHAWAKA, INDIANA 46544

219-259-2461

800-437-4780

Circle No. 125 on Reader Inquiry Card



# WHEN IT DOESN'T COME WITH A HONDA, YOU CAN KEEP IT GOING WITH ONE.

And the reasons to keep it going with a Honda are as plentiful as they are persuasive.

For starters, our line of Overhead Valve engines use substantially less fuel and oil than comparable side valve engines. And they're especially

easy starting, thanks to Automatic Decompression and a maintenance-free electronic ignition.

Almost all of our engines feature Honda's Oil Alert™, which automatically shuts off the engine before the oil drops below a safe operating level.



And we have replacement engines for all kinds of equipment. Our line includes horizontal and vertical shaft models from 2.2 to 13.0 horsepower.

All of which should persuade you there's not only reason to keep your used equipment running, there's a way to keep it running better than new.

**IT'S A HONDA**

**HONDA**  
**Power**  
**Equipment**  
**Engines**

For optimum performance and safety, we recommend you read the owner's manual before operating your Honda Power Equipment. © 1986 American Honda Motor Co., Inc.

Circle No. 126 on Reader Inquiry Card

## Equipment

*continued*

Oly-Ola Sales Inc  
Turco Mfg Inc

### Engine Parts

Briggs & Stratton Corp  
Earl J Crane Inc & Assocs  
Cushman  
DOB Distributors Inc  
Kohler Engine Div  
LESCO Inc  
Olathe Mfg Inc  
Onan Corp  
Power Lawnmower Parts Inc  
Professional Tree & Turf Equipment  
Strong Enterprises Inc  
Tecumseh Products Co  
Teledyne Total Power

### Engines

Briggs & Stratton Corp  
Earl J Crane Inc & Assocs  
Cushman  
Deere & Co  
DOB Distributors Inc  
Honda Power Equipment  
Kawasaki Motors Corp USA Engine Div  
Kohler Engine Div

**KOHLER**engines

**MAGNUM & COMMAND**  
Vertical and Horizontal  
Shaft Engines 4-23 HP

LESCO Inc  
Onan Corp  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Strong Enterprises Inc  
Tecumseh Products Co  
Teledyne Total Power

### Erosion Control Blocks

A C F Inc  
Eberhart Steel Products Plastic Div  
Presto Products Inc

### Erosion Control Fabric

A C F Inc  
Akzo Industrial Systems Co  
Atlantic Construction Fabrics Inc  
BASF Corp Fibers Div  
Conwed Fibers  
Dewitt Co

E I DuPont de Nemours & Co  
Exxon Chemical Americas  
Hoechst Celanese Corp  
North American Green Inc  
Reemay Inc  
Warren's Turf Nursery Inc  
Weyerhaeuser Co

### Fertilizer Injectors

Agrotec Inc  
Doggett Corp  
Inject-O-Meter Mfg Co  
LESCO Inc  
J J Mauget Co  
Nature's Touch  
Professional Tree & Turf Equipment  
Smith Precision Products  
Vaughan's Seed Co  
Westheffer Co

### Filters, Sand

Claude Laval Corp

### Foggers

B & G Equipment Co  
D B Smith & Co  
Southern Mill Creek Products Co

# The Growing Choice

## Hydrograssers & Power Mulchers

- Low Maintenance Design
- Dual and Quad "Hydro-Jet"
- Agitation with Vertical Homogenizers
- High Speed Mulch Grinder
- No Clog Mulch Chamber
- Direct Drive

Reinco Hydrograssers and Power Mulchers offer you the dependability you need because they are designed with the operator in mind. Our Hydrograssers range in capacity from 800 to 3500 gallons and feature easier to maintain "Hydro-Jet" agitation. Reinco Power Mulchers utilize time-proven straight through drive while the M80C offers as standard a variable speed automated bale feed system.

**Reinco**

WRITE OR CALL TOLL FREE (800) 526-7687

P.O. Box 512, Plainfield, N.J. 07061-0512 (201) 755-0921

*Dealer inquiries invited.*

Circle No. 162 on Reader Inquiry Card

# Here's proof that Typar Pro Landscape Fabric is easier to install.



We cut this piece of Typar® Pro Landscape Fabric to show what you can't do with the others.

Like cut quick slits for plants to pass through. Or fast curves that follow landscaped contours.

Typar is easily cut, lightweight and less bulky. So it's faster and cheaper for you to install.

And it's surprisingly tougher. With rugged polypropylene fibers that resist tearing, even under stones, gravel, patios and sidewalks. Typar is also porous, so air, water and nutrients can pass right through. Your landscaping projects



look healthy as well as handsome.

So save time and labor while you control weeds, drainage, soil erosion, and heaving of walks and patios.

Get Typar Pro Landscape Fabric. And start cutting corners the easy way.



Circle No. 161 on Reader Inquiry Card

**REEMAY**  
a member of The InterTech Group, Inc.

## Equipment

continued

### Forklifts

Bomford & Evershed Ltd  
Brouwer Turf Equipment Ltd  
Deere & Co  
Raymond Corp  
Teledyne Princeton  
Waldon Inc

### Generators

Earl J Crane Inc & Assocs  
Howard S Crane Inc  
Deere & Co  
Dyna/ENERGX Corp  
Fairmont Hydraulics  
Homelite Div  
Honda Power Equipment  
Kohler Engine Div  
Kubota Tractor Corp  
Onan Corp  
Shindaiwa Inc  
Tanaka Kogyo (USA) Co Ltd  
Winco/Energx Corp

### Geotextiles

A C F Inc  
Advanced Drainage Systems Inc  
BASF Corp Fibers Div  
Dewitt Co  
Exxon Chemical Americas  
Phillips Fibers Corp  
Reemay Inc

Warren's Turf Nursery Inc

### Golf Cars

Club Car Inc  
Columbia Parcar Corp  
E-Z-GO Textron  
Melex USA Inc  
Noland Car Co  
Professional Turf Mfg  
Trojan Battery Co

### Golf Course Accessories

J A Cissel Mfg Co  
Earl J Crane Inc & Assocs

## OUTDOOR PRODUCTS & SUPPLY, INC.

.....  
*Manufacturer of  
Golf Course Products*  
.....

3924 Orchard Road  
Cleveland Heights, OH 44121  
1-800-331-7907 — National  
1-800-331-7898 — Ohio

FXG Corp  
LESCO Inc  
Outdoor Products & Supply Inc  
Salsco Inc  
Standard Golf Co  
Vaughan's Seed Co

### Grass Pavers

Presto Products Inc

### Hose & Reels

Agrotec Inc  
Ames Co  
Arborchem Products Co  
Bowie Industries Inc  
Broyhill Co  
Encap Products Co  
Falkenberg  
Friend Mfg Corp  
Hannay Reels  
Kuker Industries  
LESCO Inc  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Southern Mill Creek Products Co  
Spraying Devices Inc  
Strong Enterprises Inc  
Tuflex Mfg Co  
Westheffer Co

### Irrigation Systems & Supplies

AMETEK Inc/Plymouth Products Div  
Bloch & Co

## PIPE LOCATOR

THE LOCAT, inexpensive pipe locator, locates, traces underground drain lines consisting of clay, PVC, ABS, steel culvert, orangeburg, and cement. THE LOCAT finds PVC and steel water service lines along with buried metal and plastic sprinklers and plastic valve boxes, clogs in lines.

### BLOCH AND COMPANY

P.O. Box 18058, Cleveland, OH 44118  
**(216) 371-0979**

Buckner Irrigation  
Earl J Crane Inc & Assocs  
Franklin Electric  
Gardenamerica  
Hunter Industries  
Kalo Inc  
LESCO Inc  
Motorola Control Systems  
Nalco Chemical Co  
Outdoor Products & Supply Inc  
Pierce Corp  
Progressive Electronics Inc  
Rain Bird Sales Inc  
Standard Oil Engineered Materials Co  
Toro Co  
Toro Co Irrigation Div  
Weather-matic

### Lighting Systems

Rain Bird Sales Inc

# GET SERIOUS ABOUT HYDRO-MULCHING

Bowie Industries invented the Hydro-Mulcher.<sup>®</sup> And whether you specialize in large or small projects, Bowie makes a Hydro-Mulcher that will save you money. The Bowie Victor 800 is ideal for lawn and landscape jobs.

Like all our equipment, the Victor 800 is built Bowie tough for long, trouble-free

service. Its 800 gallon tank can easily spread 350 pounds of mulch over 8,000 square feet in one application. The Bowie Victor 800 is equipped with a built-in shredder bar, and uses

twin agitators to keep slurry homogeneous. Call or write Bowie today. We make serious equipment for serious landscapers.



## BOWIE INDUSTRIES, INC.

P.O. Box 931, Bowie, Texas 76230  
Toll-Free: 1-800-433-0934 ■ In Texas: 1-817-872-2286 ■ Telex: 887844

Circle No. 103  
on Reader  
Inquiry Card

# “I SWITCHED TO RAIN BIRD... Because Life’s Too Short!”



“I had tremendous problems with my other system. Now, MAXI<sup>®</sup>-ET is as close to having my own custom control system as there is. It didn’t take long to see that the satellite is far superior to the other system. And the central unit is light years ahead of it, too.

“And, there’s a big difference in flexibility. MAXI-ET doesn’t tie you down to a closed set of parameters. MAXI-ET can solve many problems in irrigation by letting the superintendent use all the innovative tools available to him and letting him make the decisions.

“MAXI-ET is dependable. It works. Repair and maintenance is as much as 3 to 4 times lower per year.

“After installing the MAXI-ET system, we also changed all 27 greens, 5 tees, and 2 fairways to Rain Bird’s 51DR rotors and they’re here to stay! I’d say we’ll save \$3,000 to \$4,000 in repair and labor this year by switching to the DR rotor.

“I highly recommend the Rain Bird system to anyone, anywhere!”

*Gregory W. Graham*

Gregory W. Graham, Golf Course Superintendent  
The Tucson National Resort and Spa, Tucson, Arizona

Circle No. 160 on Reader Inquiry Card

## Make Rain Bird your first choice.

See for yourself how this complete irrigation and environmental management system with a state-of-the-art, on-site weather station will save you time, energy, money and headaches. Remember, life’s too short.

*Ask your distributor about  
convenient Rain Bird financing.*

**RAIN BIRD**<sup>®</sup>

Rain Bird Sales, Inc., Golf Division  
145 North Grand Avenue, Glendora, CA 91740

## Equipment

continued

### Litter Receptacles

Friend Mfg Corp  
Landscape Structures Inc  
LESCO Inc  
Outdoor Products & Supply Inc  
Playworld Systems  
Standard Golf Co

### Loaders

American Trencher Inc  
Atwater Strong Inc  
Bomford & Evershed Ltd  
Bush Hog  
J I Case Outdoor Power Equipment Div  
Howard S Crane Inc  
Deere & Co  
Deutz-Allis Corp  
Engineering Products Co  
Ford New Holland Inc  
Ingersoll Equipment Co  
Kubota Tractor Corp  
Massey-Ferguson Inc  
Melroe Co  
Salsco Inc  
Steiner Turf Equipment Inc  
Strong Mfg Co  
Vermeer Mfg Co  
Waldon Inc  
Westendorf Mfg Co

### Loading Ramps

American Road Equipment Co  
Giant-Vac Mfg Inc  
Magline Inc  
Melcher Mfg Co  
Salsco Inc

### Log Splitters

Bush Hog  
J I Case Outdoor Power Equipment Div  
Didier Log Splitters  
FXG Corp  
Giant-Vac Mfg Inc  
Ingersoll Equipment Co  
Mid Dakota Corp  
Morbark Industries Inc  
Promark Products Inc  
Vermeer Mfg Co

### Markers, Field

Kuker Industries  
Outdoor Products & Supply Inc  
Precision Laboratories Inc  
Richway Industries Ltd

### Measuring Wheels

Gandy Co  
Imler Industries Inc  
LESCO Inc  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Strong Enterprises Inc  
Westheffer Co

### Mist Blowers

Agrotec Inc  
Howard S Crane Inc  
Friend Mfg Corp  
Green Machine  
Homelite Div  
Maruyama US Inc  
Solo Inc  
Strong Enterprises Inc  
Tanaka Kogyo (USA) Co Ltd  
Trebtor Corp  
Westheffer Co

### Moisture Sensors

Rain Bird Sales Inc

### Mower Accessories

Bolens Corp  
Bunton Co  
Earl J Crane Inc & Assocs  
Cushman  
Danville Industries  
Deere & Co  
Deutz-Allis Corp  
Excel Industries Inc  
Grasshopper Co  
LESCO Inc  
M & W Gear Co  
Olathe Mfg Inc  
R L Parsons & Son  
Power Lawnmower Parts Inc  
Scag Power Equipment Inc  
Simplicity Mfg Inc  
Snapper Power Equipment

### Mower Parts

Bolens Corp  
Earl J Crane Inc & Assocs  
Cushman  
Dandl Mfg Co  
Deere & Co  
Deutz-Allis Corp  
Lawnboy Product Group  
LESCO Inc  
MoTrim Inc  
R L Parsons & Son  
Power Lawnmower Parts Inc  
Ransomes Inc  
Snapper Power Equipment

### Mowers, Flail

Bomford & Evershed Ltd  
Brillion Iron Works Inc  
Bush Hog  
Howard S Crane Inc  
Cushman  
Dandl Mfg Co  
Deere & Co  
Excel Industries Inc  
Goossen Industries  
Gravelly Intl Inc  
Jacobsen Div  
Mathews Co  
Middlesworth Engineering & Mfg Inc  
MoTrim Inc

Mott Corp  
R L Parsons & Son  
Rousseau  
Toro Co  
Woods Div  
Yazoo Mfg Co

### Mowers, Reel

Brouwer Turf Equipment Ltd  
Bunton Co  
Earl J Crane Inc & Assocs  
Deere & Co  
Jacobsen Div  
LESCO Inc  
Locke Mfg Inc  
National Mower Co  
R L Parsons & Son  
Howard Price Turf Equipment  
Ransomes Inc  
Roseman Co  
Steiner Turf Equipment Inc  
Toro Co

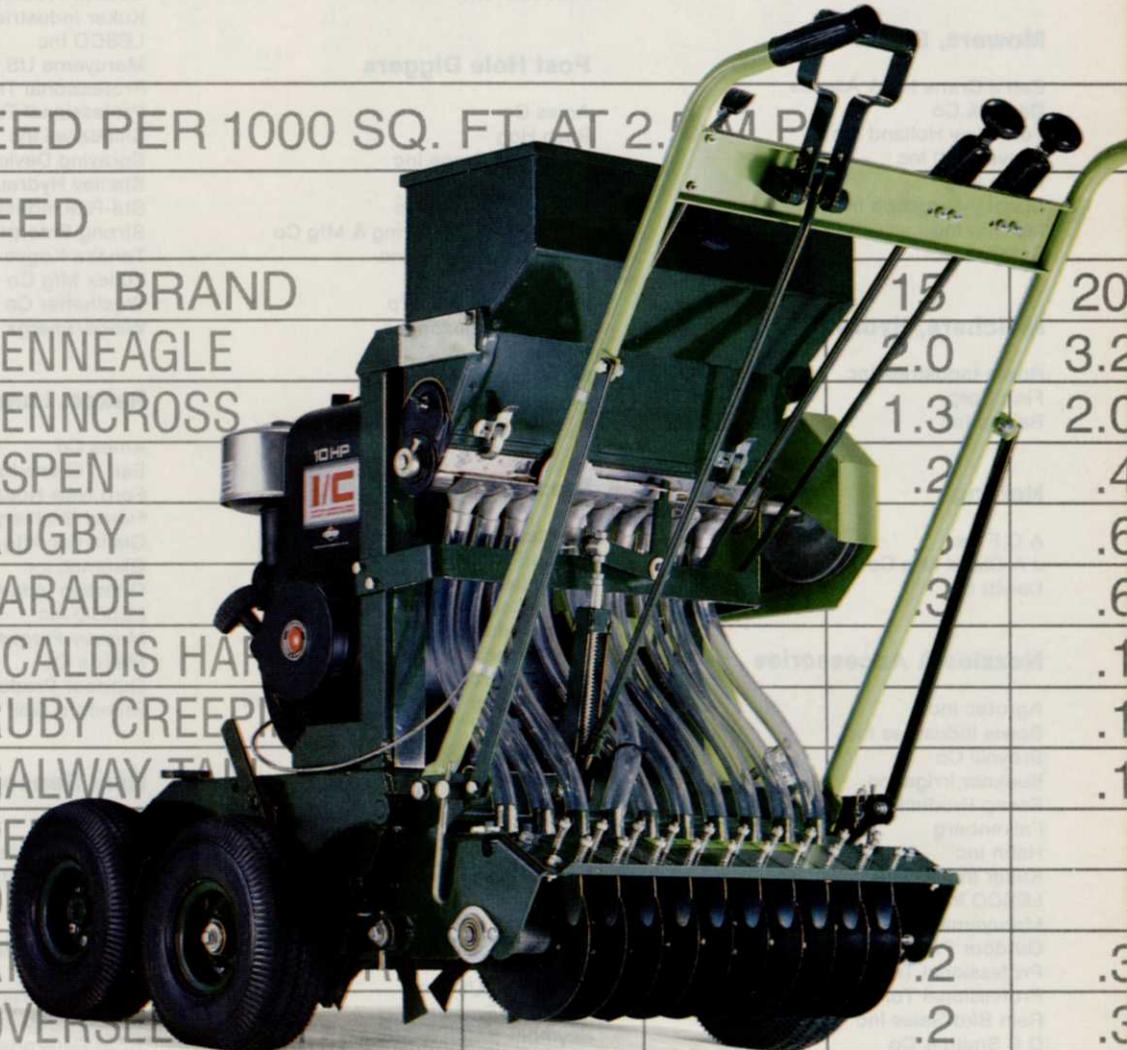
### Mowers, Rotary

Ariens Co  
Bolens Corp  
Brouwer Turf Equipment Ltd  
Bunton Co  
Bush Hog  
J I Case Outdoor Power Equipment Div  
Earl J Crane Inc & Assocs  
Howard S Crane Inc  
Cushman  
Deere & Co  
Deutz-Allis Corp  
DewEze Mfg Inc  
Dixon Industries Inc  
Excel Industries Inc  
Exmark Mfg Co  
Ford New Holland Inc  
Giant-Vac Mfg Inc  
Grasshopper Co  
Gravelly Intl Inc  
Grazer Div  
Heckendorn Mfg Co  
Homelite Div  
Honda Power Equipment  
Ingersoll Equipment Co  
Jacobsen Div  
F D Kees Mfg Co  
Kubota Tractor Corp  
Kut-Kwick Corp  
Lawnboy Product Group  
LESCO Inc  
Magic Circle-Dixie Chopper  
M & W Gear Co  
Massey-Ferguson Inc  
Middlesworth Engineering & Mfg Inc  
MoTrim Inc  
Howard Price Turf Equipment  
Ransomes Inc  
Sarlo Power Mowers Inc  
Scag Power Equipment Inc  
Sensation Div  
Simplicity Mfg Inc  
Snapper Power Equipment  
Solo Inc  
Steiner Turf Equipment Inc  
Toro Co  
Vicon Farm Machinery Inc

# The art of application for maximum germination.

POUNDS OF SEED PER 1000 SQ. FT. AT 2.5 M.P.H.

SEED			
TYPE	BRAND		
BENTGRASS	PENNEAGLE	1.5	2.0
	PENNCROSS	2.0	3.2
KENTUCKY BLUEGRASS	ASPEN	1.3	2.0
	RUGBY	.2	.4
	PARADE	.3	.6
FESCUE	SCALDIS HAI	.3	.6
	RUBY CREEP	.1	.1
	GALWAY TA	.1	.1
RYEGRASS PERENNIAL	PE	.2	.3
	D	.2	.3
MIXTURE	AT	.2	.3
	OVERSE	.2	.3



## The Ryan® Mataway® Overseeder is simply better.

Better results begin with the basics, like seed calibration. An easy-to-read chart on the Mataway Overseeder tells you the exact setting for pounds of seed needed per 1,000 sq. ft. Just look it up, load it up, select setting, and you're ready to go.

Two-inch spacing between rows gives you a dense pattern for one-pass application. Gandy® precision metering and an easily removed disc-type seed delivery system places the seed directly into the slits for uniform seed/soil contact allowing maximum germination.

The result is a lusher, thicker lawn.

The Ryan Mataway Overseeder gives you the flexibility to power rake, overseed, or to do both at the same time. Call today or contact your nearest Ryan dealer for more information and a free test drive demonstration.

**Call toll free 1-800-228-4444  
for all the details.**

**RYAN®**

**BUILT TO LAST**

6191 Ryan, P.O. Box 82409, Lincoln, NE 68501

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## Equipment

continued

Walker Mfg Co  
Woods Div  
Yazoo Mfg Co

### Mowers, Sickle Bar

Earl J Crane Inc & Assocs  
Deere & Co  
Ford New Holland Inc  
Gravelly Intl Inc  
Kinco Mfg  
Massey-Ferguson Inc  
MoTrim Inc  
Solo Inc

### Mulchers, Hydraulic

Bowie Industries Inc  
Finn Corp  
Reinco Inc

### Netting

A C F Inc  
J A Cissel Mfg Co  
Dewitt Co

### Nozzles & Accessories

Agrotec Inc  
Bowie Industries Inc  
Broyhill Co  
Buckner Irrigation  
Encap Products Co  
Falkenberg  
Hahn Inc  
Kuker Industries  
LESCO Inc  
Maruyama US Inc  
Outdoor Products & Supply Inc  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Rain Bird Sales Inc  
D B Smith & Co  
Spraying Devices Inc  
Strong Enterprises Inc  
Toro Co Irrigation Div  
Weather-matic  
Westheffer Co

### Picnic Tables

American Playground Co  
Playworld Systems

### Pipe

LESCO Inc  
Professional Turf Mfg

### Play Structures

American Playground Co  
BigToys  
Landscape Structures Inc  
Playworld Systems

### Plows, Sand Trap

Dedoes Industries Inc  
Jacobsen Div

### Post Hole Diggers

Ames Co  
Bush Hog  
Howard S Crane Inc  
Deere & Co  
Fairmont Hydraulics  
Feldmann Engineering & Mfg Co  
Ford New Holland Inc  
Hoffco Inc  
Kubota Tractor Corp  
Massey-Ferguson Inc  
Melroe Co  
Mid Dakota Corp  
Seymour Mfg Co

### Pressure Gauges

Agrotec Inc  
Encap Products Co  
Falkenberg  
Hypro Corp  
Kuker Industries  
LESCO Inc  
Outdoor Products & Supply Inc  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Spraying Devices Inc  
Strong Enterprises Inc  
Tuflex Mfg Co  
Westheffer Co

### Pruners, Hedge

Ames Co  
DOB Distributors Inc  
LESCO Inc  
Maruyama US Inc  
Rain Bird Sales Inc  
Seymour Smith & Son Inc

### Pruners, Tree

Ames Co  
Fairmont Hydraulics  
Fanno Saw Works  
Friend Mfg Corp  
Green Machine  
LESCO Inc  
Rain Bird Sales Inc  
Seymour Smith & Son Inc  
Stanley Hydraulic Tools

### Pumps

Agrotec Inc  
Barebo Inc/Otterbine  
Berkeley Pumps  
Bowie Industries Inc  
Broyhill Co  
Earl J Crane Inc & Assocs  
Falkenberg  
Friend Mfg Corp

Homelite Div  
Honda Power Equipment  
Hypro Corp  
Kubota Tractor Corp  
Kuker Industries  
LESCO Inc  
Maruyama US Inc  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Shindaiwa Inc  
Spraying Devices Inc  
Stanley Hydraulic Tools  
Sta-Rite Industries Inc  
Strong Enterprises Inc  
Tanaka Kogyo (USA) Co Ltd  
Tuflex Mfg Co  
Westheffer Co  
Winco/Energx Corp

### Rakes, Landscape

Ames Co  
Earl J Crane Inc & Assocs  
Ford New Holland Inc  
Fuerst Brothers Inc  
Giant-Vac Mfg Inc  
Glenmac Inc  
Goossen Industries  
LESCO Inc  
Massey-Ferguson Inc  
Melroe Co  
Outdoor Products & Supply Inc  
Standard Golf Co

### Rain Sensors

LESCO Inc  
Rain Bird Sales Inc  
Toro Co Irrigation Div

### Rock Pickers

Howard S Crane Inc  
Glenmac Inc  
KEM Enterprises Inc

### Rollers, Lawn

Ames Co  
Brinly-Hardy Co  
Brouwer Turf Equipment Ltd  
Cushman  
Deere & Co  
Gandy Co

### Rope

Allied Products Inc  
LESCO Inc  
Outdoor Products & Supply Inc  
Power Lawnmower Parts Inc  
Standard Golf Co

### Safety Wear & Equipment

Encon Safety Products  
LESCO Inc  
3M Occupational Health & Safety  
Products Div

# ONE TRACTOR TELLS THE HOLE STORY.

With its 50 horsepower engine, 8 forward and 8 reverse speeds, the Kubota L4150 doesn't miss a trick.

Of course, you'll see for yourself when you hook up our boxscraper.



in small spaces. Kubota's own bevel gear system on the four-wheel-drive model makes for tighter, smoother turns than your basic U-joint. Just perfect for when you're up against a wall.

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efficient direct-injection diesel engines. What that means is you can keep your eyes on the front



loader, not the fuel gauge. And every Kubota is still made by Kubota for easy servicing.

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Checker™ instrument panel is logical and legible. Opt for the hydraulic shuttle-shift transmission and you won't have to clutch when you're changing direction. Saves time, saves energy.

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If your idea of a workhorse does more than scratch the surface, write us for more information: Kubota Tractor Corp., P.O. Box 7020-A, Compton, CA 90224-7020.



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## Equipment

continued

Moyer Products Inc  
Outdoor Products & Supply Inc  
Precision Laboratories Inc  
Professional Tree & Turf Equipment

### Saws

Ames Co  
Fanno Saw Works  
Green Machine  
Progressive Power Tools Corp  
Seymour Smith & Son Inc  
Tanaka Kogyo (USA) Co Ltd

### Scrapers

Ames Co  
Bomford & Evershed Ltd  
Deere & Co  
Ford New Holland Inc  
Kubota Tractor Corp  
Massey-Ferguson Inc

### Screeners

Earl J Crane Inc & Assocs  
Lindig Mfg Corp  
Royer Foundry & Machine Co

### Seeders

Ames Co  
Bowie Industries Inc  
Brillion Iron Works Inc  
Brinly-Hardy Co  
Brouwer Turf Equipment Ltd  
Bush Hog  
Earl J Crane Inc & Assocs  
Cushman  
DOB Distributors Inc  
Gandy Co  
Hahn Inc  
Hendrix and Dail Inc  
Herd Seeder Co  
Hydro Turf and Assoc  
Jacobsen Div  
LESCO Inc  
Maruyama US Inc  
Olathe Mfg Inc  
Salsco Inc  
Seymour Mfg Co  
Thompson Seeder Co  
Vermeer Mfg Co  
Vicon Farm Machinery Inc  
Warren's Turf Nursery Inc

### Seeders, Hydraulic

Bowie Industries Inc  
Finn Corp

LESCO Inc  
Reinco Inc

### Sharpeners

Earl J Crane Inc & Assocs

### Shears

DOB Distributors Inc  
Seymour Smith & Son Inc

### Snow Blowers

Ariens Co  
Bolens Corp  
J I Case Outdoor Power Equipment Div  
Earl J Crane Inc & Assocs  
Howard S Crane Inc  
Cushman  
Deere & Co  
Deutz-Allis Corp  
Excel Industries Inc  
Ford New Holland Inc  
Grasshopper Co  
Gravely Intl Inc  
Grazer Div  
Green Machine  
Hoffco Inc  
Homelite Div  
Honda Power Equipment  
Ingersoll Equipment Co  
Jacobsen Div  
Kubota Tractor Corp  
Massey-Ferguson Inc  
Olathe Mfg Inc  
Simplicity Mfg Inc  
Snapper Power Equipment  
Solo Inc  
Steiner Turf Equipment Inc  
Toro Co  
Waldon Inc  
Wheel Horse Products Inc

### Snow Plows

Bolens Corp  
Bomford & Evershed Ltd  
J I Case Outdoor Power Equipment Div  
Deere & Co  
Deutz-Allis Corp  
Excel Industries Inc  
Gravely Intl Inc  
Guest Industries Inc  
Ingersoll Equipment Co  
Jacobsen Div  
Waldon Inc

### Sod Cutters

Brouwer Turf Equipment Ltd  
Earl J Crane Inc & Assocs  
Cushman  
Turfco Mfg Inc

### Sod Equipment

Brouwer Turf Equipment Ltd



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**SPRAY COLORANT...**  
**NOW YOU CAN SEE**  
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# BROUWER

## turf maintenance team



3.5 & 7 GANG P.T.O. MOWERS  
HYD. & MANUAL LIFT



5-GANG TRACTOR MOUNT MOWER  
PARKS & GOLF COURSE MODELS



5-GANG VERTI-CUT VERTICAL MOWER



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BROUWER 24-IN. SEEDER/OVERSEEDER



THE BROUWER SOD CUTTER



THE BROUWER GREENSMOWER



BROUWER TRIPLEX-376



TURF ROLLERS MODELS 230 & 130

## aggressive...innovative

The Brouwer Turf Maintenance Team . . . the one to beat. Check our product line and you are sure to find the machine to suit your requirements.

Golf courses, school boards, landscapers, municipalities, highway departments, parks and recreation departments will all find a machine that fits the bill - and the budget!

Brouwer . . . the name and the products that you can have confidence in. Confidence in the quality, the innovative engineering, the rugged reliability, the lasting value. Confidence in a company that gives "second-to-none" after sales service. Get the best results from your turf maintenance equipment - put the Brouwer turf maintenance team to work - today.

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An Outboard Marine Corporation Company

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Woodbine Avenue/Keswick, Ontario, Canada L4P 3E9 Telex 065-24161 Telephone: (416) 476-4311

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## Equipment

continued

### Sod Harvesters

Brouwer Turf Equipment Ltd  
Teledyne Princeton

### Soil Moisture Sensing Equipment

Howard S Crane Inc

### Soil Samplers

JISCO  
LESCO Inc  
Outdoor Products & Supply Inc  
Professional Turf Mfg

### Soil Shredders

Lindig Mfg Corp  
Royer Foundry & Machine Co

### Soil Test Meters

Outdoor Products & Supply Inc  
Terracare Products Co

### Sprayers

Agrotec Inc  
Ames Co  
Arborchem Products Co  
B & G Equipment Co  
Bowie Industries Inc  
Broyhill Co  
Bush Hog  
Carlson Engineering & Mfg Inc

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Danville Industries  
Deere & Co  
Deutz-Allis Corp  
DOB Distributors Inc  
Encap Products Co  
Falkenberg  
Friend Mfg Corp  
Great Northern Equipment Co  
Jonathan Green & Sons Inc  
Hahn Inc  
Homelite Div  
H D Hudson Mfg Co  
Hydro Turf and Assoc  
Jacobsen Div  
Kuker Industries  
LESCO Inc  
Maruyama US Inc  
Master Mfg Co  
Mid Dakota Corp  
Outdoor Products & Supply Inc  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Reinco Inc  
Roto-Hoe Co  
D B Smith & Co  
Solo Inc  
Southern Mill Creek Products Co  
Spraying Devices Inc  
Strong Enterprises Inc  
Trebtor Corp  
Vicon Farm Machinery Inc  
Warren's Turf Nursery Inc  
Westheffer Co

Professional Tree & Turf Equipment  
Spraying Devices Inc  
Westheffer Co

### Spray Guns

Agrotec Inc  
Arborchem Products Co  
Broyhill Co  
Encap Products Co  
Falkenberg  
Friend Mfg Corp  
Great Northern Equipment Co  
Hypro Corp  
Kuker Industries  
LESCO Inc  
Maruyama US Inc  
Master Mfg Co  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Southern Mill Creek Products Co  
Spraying Devices Inc  
Strong Enterprises Inc  
Tuflex Mfg Co  
Westheffer Co

### Spray Units

Agrotec Inc  
Arborchem Products Co  
Broyhill Co  
Encap Products Co  
Falkenberg  
Friend Mfg Corp  
Great Northern Equipment Co  
Hahn Inc  
Kuker Industries  
LESCO Inc  
Master Mfg Co  
Nature's Touch  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Southern Mill Creek Products Co  
Spraying Devices Inc  
Strong Enterprises Inc  
Tuflex Mfg Co  
Westheffer Co  
Wheel Spray Corp

### Spray Units, Mixer Proportioners

Arborchem Products Co  
Great Northern Equipment Co  
Nature's Touch  
Professional Tree & Turf Equipment  
Westheffer Co

### Spreaders

Ames Co  
Brinly-Hardy Co  
Country Mfg Inc  
Cushman  
Deere & Co  
Deutz-Allis Corp  
DOB Distributors Inc  
Gandy Co  
Jonathan Green & Sons Inc  
Hahn Inc  
Herd Seeder Co

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Lawn Care Applicators

Custom Made Spray Equipment  
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G. P. I. Digital Meters  
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**USA 1-800-362-3110**

Wheel Spray Corp

### Sprayers, Measuring Equipment

Arborchem Products Co  
Falkenberg  
LESCO Inc

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## Excel Hustlers Lead the Field in Performance

*You can't finish first in grounds maintenance if your equipment doesn't last the season. Hustler turf equipment is built to go the distance, and more.*



*Reliability is what puts Excel Hustler ahead of the pack. Features like dependable, industrial grade engines — built for continual use day in and day out — keep you productive and more profitable.*

*Hustler's simple design eliminates the need for pedals and gearshifts. With the one-hand hydraulic steering and **dual-hydrostatic drive system**, you'll cut **more** grass in less time and with less operator fatigue.*

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Turf & Grounds Equipment



## Equipment

continued

LESCO Inc  
Maruyama US Inc  
Mid Dakota Corp  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
PSB Co  
Salsco Inc  
O M Scott & Sons Co  
Southern Mill Creek Products Co  
Thompson Seeder Co  
Vicon Farm Machinery Inc  
Warren's Turf Nursery Inc  
Wheel Spray Corp

### Straw Blowers

Howard S Crane Inc  
Finn Corp  
Goossen Industries

### Stump Cutters

Badger Chipper Co  
Chipmore Mfg Co  
Howard S Crane Inc  
Heckendorn Mfg Co  
Lindig Mfg Corp  
Olathe Mfg Inc  
Promark Products Inc  
Rayco Mfg Co  
Vermeer Mfg Co

### Sweepers

Atwater Strong Inc  
Billy Goat Industries  
Bomford & Evershed Ltd  
J I Case Outdoor Power Equipment Div  
Country Mfg Inc  
Deere & Co  
Grasshopper Co  
Gravely Intl Inc  
Grazer Div  
Jacobsen Div  
Mathews Co  
Melroe Co  
Olathe Mfg Inc  
Precision Products Inc  
Steiner Turf Equipment Inc  
Tennant Co  
Waldon Inc  
Wheel Horse Products Inc

### Tanks, Fiberglass

Agrotec Inc  
Arborchem Products Co  
Broyhill Co  
Friend Mfg Corp  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Raven Industries Inc  
Southern Mill Creek Products Co

Spraying Devices Inc  
Strong Enterprises Inc  
Tuflex Mfg Co  
Westheffer Co

### Tanks, Metal

Agrotec Inc  
Arborchem Products Co  
B & G Equipment Co  
Friend Mfg Corp  
Great Northern Equipment Co  
LESCO Inc  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Southern Mill Creek Products Co  
Westheffer Co

### Tanks, Polyethylene

Agrotec Inc  
Arborchem Products Co  
B & G Equipment Co  
Broyhill Co  
Kuker Industries  
LESCO Inc  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Raven Industries Inc  
Southern Mill Creek Products Co  
Westheffer Co

### Tillers

Ariens Co  
Earl J Crane Inc & Assocs  
Deere & Co  
DOB Distributors Inc  
Feldmann Engineering & Mfg Co  
Ford New Holland Inc  
Hoffco Inc  
Homelite Div  
Honda Power Equipment  
Ingersoll Equipment Co  
Kubota Tractor Corp  
Kuhn Farm Machinery Inc  
Roto-Hoe Co  
Snapper Power Equipment  
Toro Co

### Tillers, Tractor-Mounted

Ariens Co  
Bolens Corp  
Burkeen Mfg Co  
Bush Hog  
Earl J Crane Inc & Assocs  
Deere & Co  
Deutz-Allis Corp  
Ford New Holland Inc  
Gravely Intl Inc  
Howard Rotavator Co  
Ingersoll Equipment Co  
Kubota Tractor Corp  
Simplicity Mfg Inc  
Steiner Turf Equipment Inc  
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### Tool Boxes

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Professional Turf Mfg

## THE MULCHING SOLUTION



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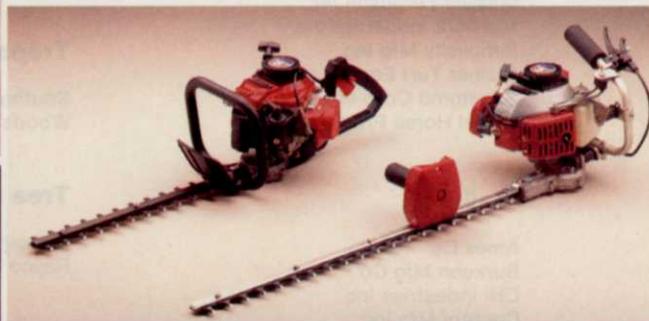
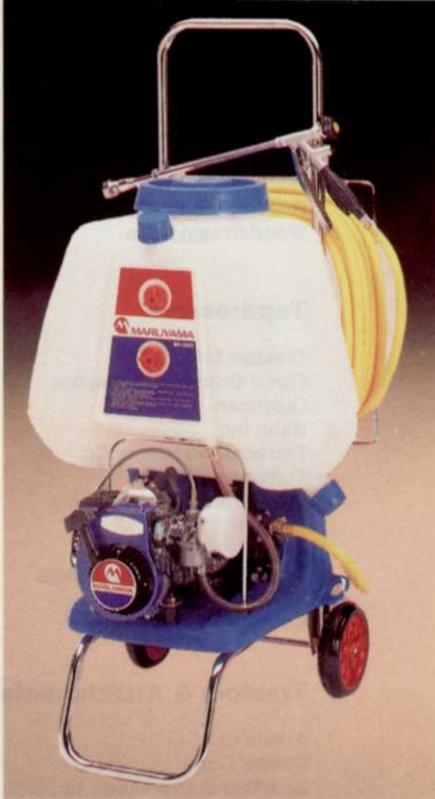
For complete details, call Goossen Industries:

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**Goossen** INDUSTRIES

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## Quality

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## Dependability

Ask the commercial equipment users—they count on Maruyama worldwide for the very best dependability.

## Product Line

Check it out—we're the best and broadest single source of power equipment.

- Brushcutters ■ Hedge trimmers

- Sprayers ■ Mist dusters
- Injectors ■ Granule spreaders
- Water pumps ■ Blowers

## Sales Potential

Our accounts worldwide boast of Maruyama sales growth. Even in the tough Japanese market, we rank #1 in sprayers and #3 in brushcutters\*. If you want to grow—go with the very best.

## Commitment

Our steady growth and commitment to two-step distribution with servicing dealers makes Maruyama

a company you can count on.

## Go For the Very Best

Maruyama—the source of quality equipment since 1895.

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Redmond, WA 98073-2167  
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FAX: (206) 885-0123

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# MARUYAMA™

Quality agricultural equipment since 1895.

\*SOURCE: Agriculture Machinery Manufacturers Association of Japan

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## Equipment

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Reading Body Works Inc  
Woodstream Corp

### Topdressers

Classen Mfg  
Earl J Crane Inc & Assocs  
Cushman  
Hahn Inc  
Terracare Products Co  
Turco Mfg Inc  
Vicon Farm Machinery Inc

### Topdressing Brushes

Country Mfg Inc

### Tractors & Attachments

Ariens Co  
Bolens Corp  
Bomford & Evershed Ltd  
Burkeen Mfg Co  
J I Case Outdoor Power Equipment Div  
Earl J Crane Inc & Assocs  
Deere & Co  
Deutz-Allis Corp  
Engineering Products Co  
Ford New Holland Inc  
Gravely Intl Inc

Homelite Div  
Honda Power Equipment  
Ingersoll Equipment Co  
Jacobsen Div  
Kioti Tractor Inc  
Kubota Tractor Corp  
Massey-Ferguson Inc  
Morbark Industries Inc  
Simplicity Mfg Inc  
Steiner Turf Equipment Inc  
Sumitomo Corp of America  
Wheel Horse Products Inc

### Trailers

Ames Co  
Burkeen Mfg Co  
CHI Industries Inc  
Country Mfg Inc  
Earl J Crane Inc & Assocs  
Howard S Crane Inc  
Ditch Witch  
Excel Industries Inc  
E-Z-GO Textron  
Falkenberg  
Giant-Vac Mfg Inc  
Great Northern Equipment Co  
Jacobsen Div  
Kuker Industries  
LESCO Inc  
Magline Inc  
Olathe Mfg Inc

Precision Products Inc  
Ravens Metal Products Inc  
C L Reilly Tree Service & Mfg  
Snowco Inc  
Wells Cargo Inc  
Yazoo Mfg Co

### Traps, Animal

Southern Mill Creek Products Co  
Woodstream Corp

### Tree Braces

Foresight Products Inc  
Rayco Mfg Co

### Tree Cutters

Seymour Smith & Son Inc

### Tree Injectors

Arborchem Products Co  
Doggett Corp  
J J Mauget Co  
Strong Enterprises Inc  
Trebtor Corp

### Tree Movers, Spades

Ames Co  
Big John Tree Transplanter Mfg Inc  
Burkeen Mfg Co  
Earl J Crane Inc & Assocs  
Ford New Holland Inc  
Vermeer Mfg Co

### Trenchers

American Trencher Inc  
Burkeen Mfg Co  
Ditch Witch  
Ford New Holland Inc  
Melroe Co  
MoTrim Inc  
Olathe Mfg Inc  
Seaman-Parsons Corp  
Vermeer Mfg Co

### Trimmers

Bunton Co  
Earl J Crane Inc & Assocs  
Deere & Co  
DOB Distributors Inc  
Green Machine  
Hoffco Inc  
Homelite Div  
Jacobsen Div  
Lawnboy Product Group  
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Maruyama US Inc  
Omark Industries  
Shindaiwa Inc  
Snapper Power Equipment  
Solo Inc  
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# TAKE A TURN FOR THE BEST

## Turn more production and return more profit to your landscaping business with a Bobcat 700 series skid-steer loader.

Designed with engineering excellence to turn in its own tracks for time-saving maneuverability. And featuring an impressive array of changeable attachments to handle almost any job.

The full Bobcat line features 15 model sizes, ranging from 600 lbs. up to 4,000 lbs. lift capacity to handle almost any size load.



The Bobcat skid-steer loader can turn in its own tracks.

Regardless of size, all Bobcats offer the same outstanding features. Agility in tight areas. Attachment versatility. Rugged durability. Easy maintenance and operation. Comfort and safety. Top performance in any work situation.



Bobcat also offers value. A Bobcat is well-built, and backed by a dealer service and parts network second to none. No matter where you put your Bobcat to work, there's a Bobcat dealer nearby with genuine Bobcat parts and service by factory-trained mechanics. In fact, Bobcats are so well-built and maintained that they keep their value at trade-in time, which gives you a big return on your initial investment.

Turn into your nearest Bobcat dealer today, and take a turn for the best in performance and value.

\*Selected by Fortune Magazine as one of America's top 100 products.



<b>Angle Broom</b> 	<b>Backhoe &amp; Rear Stabilizer</b> 	<b>Combination Bucket</b> 	<b>Earth Auger</b> 	<b>Front Scarifier</b> 
<b>Grader</b> 	<b>Grapples and Forks</b> 	<b>Hydraulic Breaker</b> 	<b>Landscape Rake</b> 	<b>Sweeper</b> 

Utility frame, three-point hitch, box scraper, york rake, trencher, Edwards mast, pallet fork, snowblade, tracks, vibratory roller and tree transplanter attachments are also available.

The Bobcat Commitment  
**TOTAL CUSTOMER SATISFACTION**

The 700 series features three models with a lift capacity up to 1300.

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## Equipment

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Toro Co  
Yazoo Mfg Co

### Trucks/Truck Bodies

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Hi-Ranger Inc  
Jerr-Dan Co  
Mazda  
Nissan Motor Corp USA  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Reading Body Works Inc  
Supreme Corp  
Toyota Motor Sales USA Inc

### Vacuums

Atwater Strong Inc  
Billy Goat Industries  
Brouwer Turf Equipment Ltd  
Deere & Co  
Giant-Vac Mfg Inc  
Goossen Industries  
Grasshopper Co  
Grazer Div  
Ingersoll Equipment Co  
Jacobsen Div  
Olathe Mfg Inc  
Promark Products Inc  
Ransomes Inc

Salsco Inc  
Simplicity Mfg Inc  
Snapper Power Equipment  
Turf Vac Corp  
Wheel Horse Products Inc  
Woods Div  
Yard Vac Products Inc

### Vehicles, All-Terrain

Howard S Crane Inc  
Daihatsu America Inc  
Deere & Co  
Kawasaki Motors Corp USA  
Yamaha

### Vehicles, Electric

Club Car Inc  
Columbia Parcar Corp  
Cushman  
Noland Car Co  
Taylor-Dunn  
Trojan Battery Co  
Yamaha

### Vehicles, Turf

CHI Industries Inc  
Club Car Inc  
Columbia Parcar Corp  
Cushman  
Daihatsu America Inc  
Deere & Co  
E-Z-GO Textron  
Hahn Inc  
Noland Car Co  
Olathe Mfg Inc  
Taylor-Dunn  
Terrain Vehicles Inc  
Toro Co  
Turf Vac Corp  
Yamaha

### Vibratory Plows

Burkeen Mfg Co  
Ditch Witch  
Turco Mfg Inc  
Vermeer Mfg Co

### Washers, Pressure

Agrotec Inc  
Deere & Co  
Falkenberg  
Friend Mfg Corp  
Kubota Tractor Corp  
Strong Enterprises Inc  
Westheffer Co



## 2. Equipment Companies

A C F Inc  
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Richmond VA 23237  
804-743-9558

Advanced Drainage Systems Inc  
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Columbus OH 43221  
614-457-3051

Agrotec Inc  
Hwy 35 N  
PO Box 49  
Pendleton NC 27862  
919-585-1222

Akzo Industrial Systems Co  
One North Pack Sq  
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704-258-5050

Allied Products Inc  
1816 Settlers Oval  
Cleveland OH 44145  
216-871-8909

American Playground Corp  
PO Drawer 2599  
Anderson IN 46018  
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4201 N 26 St  
Omaha NE 68111  
402-451-2575

American Trencher Inc  
503 Gay St  
Delhi IA 52223  
319-922-2981

Ames Co  
PO Box 1774  
Parkersburg WV 26101  
304-424-3000

AMETEK/Plymouth Products Div  
502 Indiana Ave  
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- 40 HP KABOTA DIESEL (Lower Operating Cost)
- MECHANICAL PADDLE & JET AGITATION
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- VERSITILITY
- LOWER COSTS

Dealer and Salesman Inquires Invited

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Circle No. 128 on Reader Inquiry Card

*For A Tough, Stay-On-The-Job Trencher That  
Outdigs All The Others...*



# ...Demand Ditch Witch!

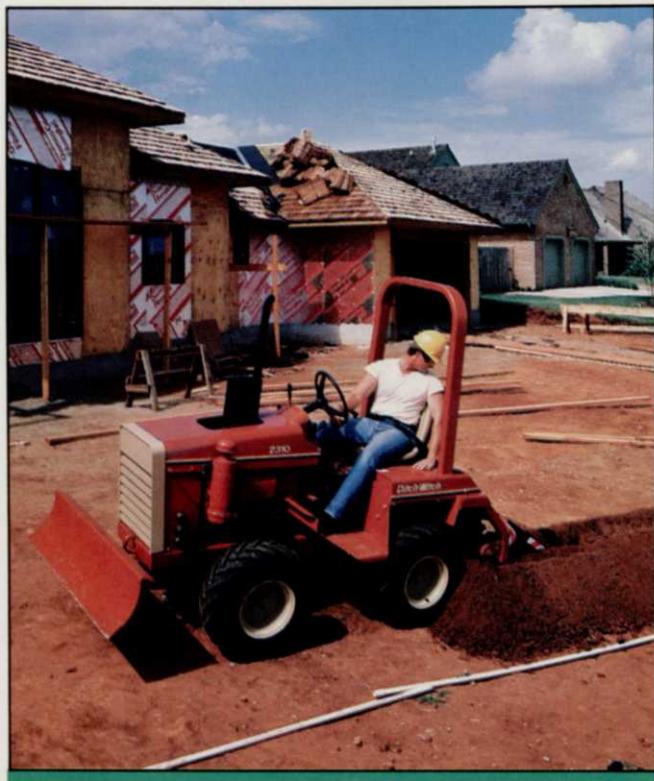
There are more people digging more trench in more places with Ditch Witch equipment than with any other brand of trencher manufactured in the world. Here are just a few good reasons why.

## Ditch Witch Direct Drive

This rugged system allows you to dig wide or deep in even the most demanding conditions.

A Ditch Witch direct drive system makes efficient use of available horsepower, getting *more* power to the digging chain where it's needed. You'll dig more trench per hour than trenchers with more engine horsepower using hydraulic digging chain drive. And this means more feet of trench per gallon of fuel — you can count on it!

Downtime due to overheating is virtually eliminated, too. This proven direct drive system works harder than hydraulic drive systems, and it's less expensive to repair.



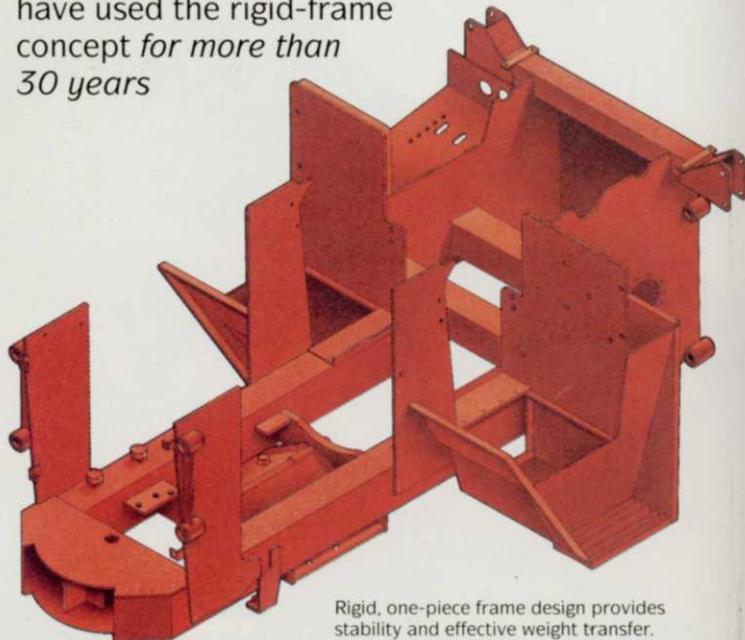
The 2310 has an enclosed gearbox, which eliminates driveline adjustments.



Simplicity of operation and reliability make the Ditch Witch 1010 the best compact trencher ever made.

## Rigid, One-Piece Frame Design

The Ditch Witch rigid frame transfers machine weight to the digging boom for more effective trenching. A rigid-frame Ditch Witch trencher digs a straight trench and backfilling is easier, too. Ditch Witch trenchers have used the rigid-frame concept *for more than 30 years*

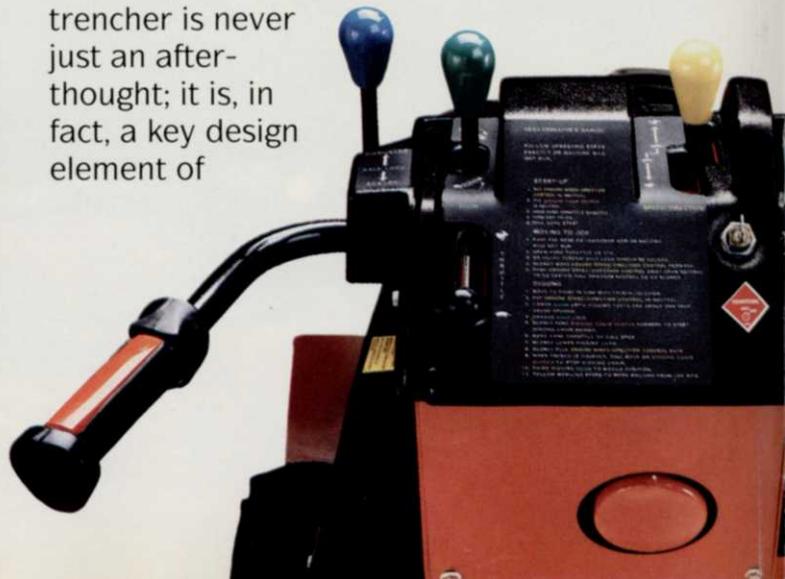


Rigid, one-piece frame design provides stability and effective weight transfer.

because it's stronger and more stable than an articulated frame. It makes you wonder why other trencher manufacturers have waited *so long* to start incorporating this basic design concept into their equipment.

## Ease of Operation: A comfortable operator is a more productive operator.

The operator station on a Ditch Witch trencher is never just an after-thought; it is, in fact, a key design element of



every trencher we build. The operator is comfortable on a Ditch Witch trencher, with an unobstructed view of the trenching operation. Controls are clearly identified, easy to understand, and easy to use.

### Productivity Through Versatility.

Ditch Witch offers you a complete range of trenchers – from 9-HP through 100-HP – to meet about every need. The Ditch Witch Modularmatic® concept allows one machine to do the work of several; an example is the Combo unit for trenching and plowing. You can take advantage of specialized trenching booms and teeth for digging in frost and rocky soils. The Earth Saw module will cut trench in concrete and asphalt. There



The powerful Ditch Witch 7510 sets new standards for 75-HP-class trenching productivity.

also are backhoe attachments, boring units, and other accessories that increase your jobsite productivity.

### Ditch Witch Dealer Know-How

Your Ditch Witch dealer has the underground construction experience you can profit from. He can be the most important reason you should buy a Ditch Witch trencher.

After all, trenchers aren't a newly-acquired sideline for your Ditch Witch Dealer to sell; he is an underground construction expert with first-hand knowledge of trenching conditions in your area. He stocks a complete inventory of parts. And he offers a staff of trained service experts who are committed to *your* success. It's easy to see why the real value of owning a Ditch Witch trencher begins *after* the sale.



No one delivers parts and service better than your Ditch Witch dealer.

When you demand Ditch Witch, you get a trencher that's rugged enough to work all day long in tough conditions. Your Ditch Witch trencher is backed by committed dealers who know and understand the needs of your business. *No one but Ditch Witch offers these advantages.*

To see for yourself why Ditch Witch is the tough stay-on-the-job trencher that outdigs all the others, turn the page and call the dealer nearest you. Or, to find out which dealer services your area call The Charles Machine Works, Inc. toll free at (800) 654-6481.

# Ditch Witch®

The Ditch Witch dealers in your region sponsoring this message are listed below.

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(617) 771-4111

**Ditch Witch of New Jersey**  
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Englishtown, New Jersey 07726  
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**Ditch Witch of Central New York**  
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Syracuse, New York 13211  
(315) 455-7379

**Ditch Witch of Charlotte, Inc.**  
3908 N. Graham Street  
Charlotte, North Carolina 28206  
(704) 596-5700

**Ditch Witch of Greensboro, Inc.**  
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Greensboro, North Carolina 27419  
(919) 294-5160

**Ditch Witch of North Carolina, Inc.**  
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Raleigh, North Carolina 27611  
(919) 772-1214

**Keystone Ditch Witch**  
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Delmont, Pennsylvania 15626  
(412) 468-6709

**Ditch Witch of Pennsylvania**  
Rt.100 & Little Conestoga Rd.  
Eagle, Pennsylvania 19480  
(215) 458-8282

**Ditch Witch of Lake Erie**  
5034 Buffalo Road  
Erie, Pennsylvania 16510  
(814) 899-0629

**Ditch Witch Mid-South**  
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Memphis, Tennessee 38118  
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**Ditch Witch of Virginia**  
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Washington Highway  
Glen Allen, Virginia 23060  
(804) 798-2590

**Branch**  
Chesapeake, Virginia  
(804) 424-5960

**Ditch Witch of Roanoke, Inc.**  
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Salem, Virginia 24153  
(703) 387-0429

For the name and location of the  
Ditch Witch dealer servicing your  
area, call (800) 654-6481.



Circle Reader Service # 125.



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800-255-5715

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Brillion WI 54110  
414-756-2141

Atlantic Construction Fabrics Inc  
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Richmond VA 23237  
804-271-0633  
800-448-3636

Atwater Strong Inc  
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Atwater OH 44201  
216-947-2344

Badger Chipper Co  
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Bay City MI 48706  
517-894-4579

B & G Equipment Co  
Rte 611  
PO Box 130  
Plumsteadville PA 18949  
215-766-8811

★ Barebo Inc/Otterbine  
R D 2  
PO Box 217  
Emmaus PA 18049  
215-965-6018

BASF Corp Fibers Div  
Geomatrix Systems  
Enka NC 28728  
704-667-7713

Berkeley Pumps  
725 Ann St  
Delavan WI 53115  
414-728-4224

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Heber Springs AR 72543  
501-362-6181

BigToys  
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206-572-7611

Billy Goat Industries  
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Lee's Summit MO 64063  
816-524-9666

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Englewood CO 80110  
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Glencoe AL 35905  
205-492-7847

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404-863-3000

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608-764-5474

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612-852-7500  
800-328-2047  
800-572-7002(MN)

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Hickory NC 28601  
704-327-6670

Country Mfg Inc  
333 Salem Ave Ext  
PO Box 104  
Fredericktown OH 43019  
614-694-9926

Earl J Crane Inc & Assocs  
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Tiffin OH 44883  
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Howard S Crane Inc  
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Oneida NY 13421  
315-363-3390

Curb King  
3038 I 70 Business Loop E  
Grand Junction CO 81504  
303-434-5337

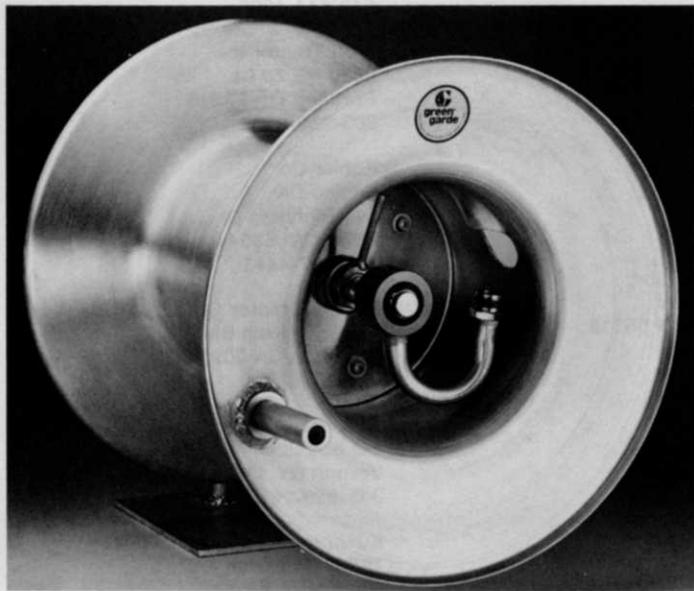
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Lincoln NE 68501  
402-475-9581
- ★ **Daihatsu America Inc**  
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Los Alamitos CA 90720  
714-761-7000
- Dandl Mfg Co  
PO Box 687  
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- Danville Industries  
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Danville KS 67036  
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- Dedoes Industries Inc  
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Ossineke MI 49766  
517-471-5413
- ★ **Deere & Co**  
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Moline IL 61265  
309-765-8000
- Deutz-Allis Corp  
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414-475-3413
- DewEze Mfg Inc  
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Harper KS 67058  
316-896-7381
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RR 3 Box 338  
Sikeston MO 63801  
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314-472-0048
- Didier Log Splitters  
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Milwaukee WI 53223  
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Perry OK 73077-0066  
405-336-4402  
800-654-6481
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a Coleman Co  
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800-255-0901
- E I DuPont de Nemours & Co  
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Wilmington DE 19898  
302-992-6161
- Dyna/Energx Corp  
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- ★ **Encap Products Co**  
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Houston TX 77040  
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- Engineering Products Co  
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New Berlin WI 53151  
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316-327-4911
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404-798-4311
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Motors-Harsco Corp  
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Fairmont MN 56031  
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- Falkenberg Inc  
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- Fanno Saw Works  
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Sheboygan Falls WI 53085  
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9281 LeSaint Dr  
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- Ford New Holland Inc  
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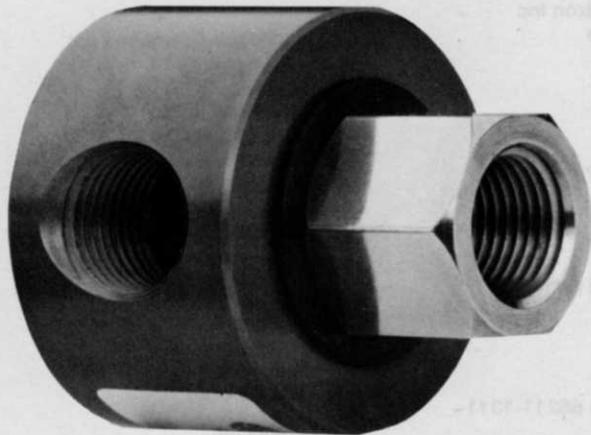
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213-603-9888
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812-428-2020
- Hancor Inc  
401 Olive St  
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419-422-6521
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Westerlo NY 12176  
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- Heckendorn Mfg Co  
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800-835-7805
- Hendrix & Dail Inc  
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PO Box 648  
Greenville NC 27835-0648  
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- Herd Seeder Co  
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Logansport IN 46947  
219-753-6311
- Hi-Ranger Inc  
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Waukesha WI 53186  
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- Hoechst Celanese Corp  
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Spartanburg SC 29304  
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- Hoffco Inc  
358 NW "F" St  
Richmond IN 47374  
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- Homelite Div Textron Inc  
14401 Carowinds Blvd  
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Gardena CA 90247  
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- H D Hudson Mfg Co  
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Gilberts IL 60136  
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New Brighton MN 55112  
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614-486-9068(OH)  
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- Ingersoll Equipment Co  
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- Inject-O-Meter Mfg Co  
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800-248-6000
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- Kalo Inc  
4370 W 109 St  
Overland Park KS 66211-1311  
913-491-9125
- ★ Kawasaki Motors Corp USA  
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Irvine CA 92718  
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650 Industrial Circle S  
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612-445-6060
- F D Kees Mfg Co  
700-800 Park Ave  
Beatrice NE 68310  
402-223-2391
- ★ KEM Enterprises Inc  
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Seattle WA 98166  
206-433-0407
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170 N Pascal  
St Paul MN 55104  
612-644-4666
- Kioti Tractor Inc  
6620 NE 79 Ct  
Portland OR 97218  
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- ★ Kubota Tractor Corp  
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- Kuhn Farm Machinery Inc  
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315-829-2620
- Kuker Industries  
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Omaha NE 68137  
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- ★ Kut-Kwick  
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612-972-3391
- Claude Laval Corp  
1911 N Helm Ave  
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In GA. 1-800-592-5945

## Equipment Companies

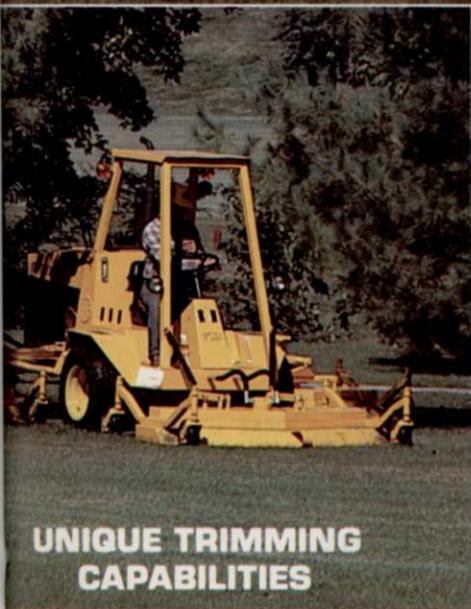
continued

- Locke Mfg Inc  
1100 Boston Ave  
Bridgeport CT 06610  
203-333-3157
- Magee Machine & Mfg  
4300 Forney Rd  
Mesquite TX 75149  
214-285-2554
- Magic Circle-Dixie Chopper  
RR 1 Box 345  
Coatesville IN 46135  
317-246-6845
- Magline Inc  
503 Mercer St  
Pinconning MI 48605  
517-879-2411
- M & W Gear Co  
Rt 47 South  
Gibson City IL 60936  
217-784-4261
- Mar-Mac Mfg Co  
PO Box 278  
McBee SC 29101  
803-335-8211
- ★ Maruyama US Inc  
15436 NE 95 St  
PO Box 2167  
Redmond WA 98073-2167  
206-885-0811
- Massey-Ferguson Inc  
1901 Bell Ave  
Des Moines IA 50315  
515-247-2011
- Master Mfg Co  
119 Main St  
Sioux City IA 51103  
712-258-0108
- Mathews Co  
500 Industrial Ave  
Crystal Lake IL 60012  
815-459-2210
- J J Mauget Co  
2810 N Figueroa St  
Los Angeles CA 90065  
213-227-1482
- ★ Mazda  
7755 Irvine Center Dr  
Irvine CA 92718  
714-727-1990
- Melcher Mfg Co  
E 6017 Mission  
Spokane WA 99212  
509-535-7626
- Melex USA Inc  
1221 Front St  
Raleigh NC 27609  
919-828-7645
- ★ Melroe Co  
PO Box 6019  
 Fargo ND 58108  
701-241-8700
- Mid Dakota Corp  
Garrison Industrial Park  
Box 728  
Garrison ND 58540  
800-327-7154
- Middlesworth Engineering & Mfg Inc  
1050E 200N  
PO Box 165  
Greentown IN 46936  
317-628-2230
- 3M Occupational Health & Safety  
Products Div  
Bldg 220-7W-02  
3M Center  
St Paul MN 55144-1000  
800-328-1667
- Morbark Industries Inc  
PO Box 1000  
Winn MI 48896  
517-866-2381
- Motorola Control Systems  
3039 Kilgore Rd Ste 190  
Rancho Cordova CA 95670  
916-635-8884
- MoTrim Inc  
240 Steubenville Ave  
Cambridge OH 43725  
614-439-2725
- Mott Corp  
500 Shawmut Ave  
PO Box 518  
LaGrange IL 60525  
312-354-7220
- Moyer & Son Inc  
113 E Reliance Rd  
Souderton PA 18964  
215-723-6001
- Moyer Products Inc  
3321 W Castor  
Santa Ana CA 92704  
714-549-2871
- Nalco Chemical Co  
One Nalco Center  
Naperville IL 60566-1024  
312-961-9500
- National Mower Co  
700 Raymond Ave  
St Paul MN 55114  
612-646-4079
- Nature's Touch  
11150 W Addison St  
Franklin Park IL 60131  
312-455-6900
- Nissan Motor Corp USA  
18501 S Figueroa  
PO Box 191  
Gardena CA 90247  
213-532-3111
- Noland Car Co  
PO Box 190  
Edgewater FL 32032-0190  
904-427-9645
- North American Green Inc  
14649 Hwy 41 N  
Evansville IN 47711  
812-867-6632
- ★ Olathe Mfg Inc  
100 Industrial Pkwy  
Industrial Airport KS 66031  
913-782-4396  
800-255-6438
- Oly-Ola Sales Inc  
54 E St Charles Rd  
Villa Park IL 60181  
312-833-3033  
800-EDGINGS
- Omark Industries  
4909 SE International Way  
Portland OR 97222  
503-653-8881
- OMC-Lincoln  
See Cushman
- ★ Onan Corp  
1400 73 Ave NE  
Minneapolis MN 55432  
612-574-5000
- Outdoor Products & Supply Inc  
3924 Orchard Rd  
Cleveland Heights OH 44121  
216-587-5438
- R L Parsons & Son Equipment Co  
7155 St Rt 142  
PO Box 28  
West Jefferson OH 43162  
614-879-7601
- Phillips Fibers Corp  
PO Box 66  
Greenville SC 29602  
803-242-6600  
800-845-5737(East)  
800-437-6600(West)  
800-452-5769(CA)
- Pierce Corp  
10 N Central St  
Eugene OR 97402  
503-485-3111
- Playworld Systems  
PO Box 227  
New Berlin PA 17855  
800-233-8404
- Power Lawnmower Parts Inc  
1920 Lyell Ave  
PO Box 60860  
Rochester NY 14606  
716-458-0800
- Precision Laboratories Inc  
PO Box 127  
Northbrook IL 60065  
312-498-0800
- Precision Products Inc  
2415 S Grand Ave E  
Springfield IL 62708  
217-528-1311

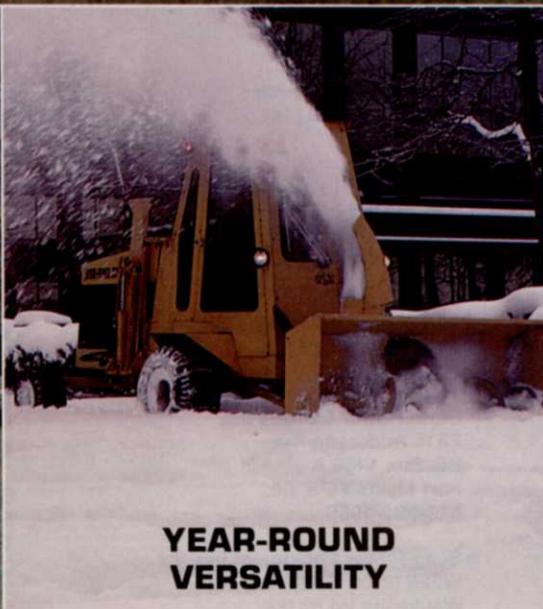
# CUT YOUR TURF PROBLEMS DOWN TO SIZE



## with **HYDRO-POWER 180**



**UNIQUE TRIMMING  
CAPABILITIES**



**YEAR-ROUND  
VERSATILITY**



**EASY-FOLDING  
CUTTING UNITS FOR  
TRANSPORT**

Your search for a high capacity mower encompassing a one man operation is now concluded. The Hydro-Power 180 with its 15 foot hydraulically driven rotary mower has a mowing capacity of up to 11 acres an hour while incorporating rear wheel steering for maximum maneuverability. Cutting units are designed for maximum floatation and may be used individually or in any combination of the three.

A foot pedal controlled hydrostatic transmission affords variable mowing speeds as well as transport speed to insure maximum travel time between the job sites. The Hydro-Power 180 offers year-round versatility with a 2-stage, 73" snow blower and heated cab.

Manufactured by



18155 Edison Avenue  
Chesterfield, Mo. 63017

## Equipment Companies

continued

- Presto Products Inc  
PO Box 2399  
Appleton WI 54913  
414-739-9471
- ★ Howard Price Turf Equipment  
18155 Edison Ave  
Chesterfield MO 63017  
314-532-7000
- Professional Tree & Turf Equipment  
6945 Indiana Ct Ste 400  
Golden CO 80403  
303-422-7608  
800-237-7785
- Professional Turf Mfg  
1801 Industrial Park Rd  
Normal IL 61761  
309-452-2155  
800-367-9091
- Progressive Electronics Inc  
325 S El Dorado  
Mesa AZ 85202  
602-966-2931
- Progressive Power Tools Corp  
1100 W Broadway St  
Three Rivers MI 49093  
800-635-LINK  
606-279-7414(MI)
- ★ Promark Products Inc  
330 Ninth Ave  
City of Industry CA 91746  
818-961-9783
- PSB Co  
555 W Goodale St  
Columbus OH 43216  
614-228-5781
- ★ Rain Bird Sales Inc  
145 N Grand Ave  
Glendora CA 91740  
818-963-9311
- ★ Ransomes Inc  
One Bob Cat Lane  
Johnson Creek WI 53038  
414-699-2000
- Raven Industries Inc  
PO Box 1007  
Sioux Falls SD 57117  
605-336-2750
- Ravens Metal Products  
703 Rayon Dr  
Parkersburg WV 26101  
304-485-0123
- Rayco Mfg Co  
6822 Lincoln Way E  
Wooster OH 44691-9954  
216-264-8699
- Raymond Corp  
S Canal St  
Greene NY 13778  
800-235-7200
- Reach-All Inc  
1300 Terminal Dr  
Duluth MN 55816  
218-722-9200
- Reading Body Works Inc  
Hancock Blvd & Gerry St  
Reading PA 19611  
215-775-3301
- ★ Reemay Inc  
Industrial Rd  
Old Hickory TN 37138  
615-847-7000
- C L Reilly Tree Service & Mfg  
RR 1 Box 73  
Crystal ND 58222  
701-657-2369
- ★ Reinco Inc  
520 North Ave  
PO Box 512  
Plainfield NJ 07060  
201-755-0921  
800-526-7687
- Richway Industries Ltd  
525 Main St  
Janesville IA 50647  
319-987-2976
- Roseman Mfg Co  
2300 Chestnut Ave  
Glenview IL 60025  
800-852-ROSE
- Roto-Hoe Co  
100 Auburn Rd  
Newbury OH 44065  
216-564-2294
- ★ Rousseau  
8433 Mid County Ind  
St Louis MO 63114  
314-426-7377
- Royer Foundry & Machine Co  
158 Pringle St  
Kingston PA 18702  
717-287-9624
- Salsco Inc  
105 School House Rd  
Cheshire CT 06410  
203-271-1682
- Sarlo Power Mowers Inc  
2315 Anderson Ave  
PO Box 1169  
Fort Myers FL 33902  
813-332-1955
- ★ Scag Power Equipment Inc  
W226 N900 Eastmound Dr  
Waukesha WI 53186  
414-544-4090
- ★ O M Scott & Sons Co  
14111 Scottslawn Rd  
Marysville OH 43041  
513-644-0011(OH call collect)  
800-543-0006
- Seaman-Parsons Corp  
W161 N9116 Hayes Ave  
Menomonee Falls WI 53051  
414-251-3860
- Sea-Ranch  
Rte 2 Box 604  
Sheridan AR 72150  
501-942-2515
- Sensation Div Gilson Brothers  
Cty Trunk PP  
PO Box 152  
Plymouth WI 53073  
414-893-1011
- Seymour Mfg Co  
500 N Broadway  
Seymour IN 47274  
812-522-2900  
800-457-1909
- Shindaiwa Inc  
11975 SW Herman Rd  
Tualatin OR 97062  
503-692-3070
- Simplicity Mfg Inc  
500 N Spring St  
Port Washington WI 53074  
414-377-5450
- D B Smith & Co  
414 Main St  
Utica NY 13501  
315-735-5223
- Seymour Smith & Son Inc  
900 Main St  
Oakville CT 06779  
203-274-2558
- Smith Precision  
1299 Lawrence Dr  
Newbury Park CA 91320  
805-498-6616
- Snapper Power Equipment  
535 Macon Rd  
McDonough GA 30253  
404-957-9141
- Snowco Inc  
4350 McKinley St  
PO Box 12067  
Omaha NE 68112  
402-453-2200
- Solo Inc  
5100 Chestnut Ave  
Newport News VA 23605  
804-245-4228
- Southern Mill Creek Products Co  
5414 N 56 St  
Tampa FL 33610  
813-626-2111
- Spraying Devices Inc  
PO Box 3107  
Visalia CA 93278  
209-651-1306
- Standard Golf Co  
220 E Fourth St  
PO Box 68  
Cedar Falls IA 50613  
319-266-2638
- Standard Oil Engineered Materials Co  
6180 Cochran Rd

# IF YOU DON'T BUY A SCAG RIDER THIS YEAR, HERE'S WHAT YOU'LL BE MISSING.

Scag's new hydrostatic riders are engineered and built to perform better and last longer. No other hydrostatic rider gives you the high-performance features you get on a Scag rider.

Hydrostats are available with 48-, 61- and 72-inch decks and 18 or 20 HP Kohler cast-iron, twin cylinder engines. Scag gear-drive riders come in 40- to 61-

inch cutting decks with 12.5 to 18 HP engines. Scag also manufactures a complete line of commercial walkers from 32- to 72-inch cutting decks and 12.5 to 20 HP engines. See the complete line of Scag commercial mowers today.

- Scag's patented pivot-mount frame and zero-turning radius make maneuvering easier.
- Eaton Series 850 hydrostatic transaxle for smooth operation with just a touch of the foot.
- Trouble-free performance hydrostat warranted for two years.
- Drive wheels driven by independent motors for a smooth transition through curves and better traction.
- Specially-designed foot pedal reduces operator fatigue.
- Scag-designed hydraulic cooling reservoir provides almost double the cooling capacity.



**SCAG**  
**POWER EQUIPMENT**

SUBSIDIARY OF METALCRAFT OF MAYVILLE  
1000 Metalcraft Drive  
Mayville, WI 53050  
1-414-387-0100

Circle No. 165 on Reader Inquiry Card

**SIMPLY THE BEST**

## Equipment Companies

continued

PO Box 391316  
Solon OH 44139  
216-349-6882

Stanley Hydraulic Tools  
3810 SE Naef Rd  
Milwaukie OR 97267  
503-659-5660

Sta-Rite Industries Inc  
293 S Wright St  
Delavan WI 53115  
414-728-5551

Steiner Turf Equipment Inc  
930 Penn Ave  
PO Box 85  
Orrville OH 44667  
216-683-0055

Strong Enterprises Inc  
14090 SW 144 Ave Rd  
Miami FL 33186  
305-235-0967

Strong Mfg Co  
N US Hwy 79  
PO Box 8068  
Pine Bluff AR 71611  
501-535-4753

Sumitomo Corp of America  
Machinery Dept  
345 Park Ave  
New York NY 10154

Supreme Corp  
16500 CR 38  
PO Box 463  
Goshen IN 46526  
219-642-4888

Tanaka Kogyo (USA) Co Ltd  
22121 Crystal Creek Blvd SE  
Bothell WA 98021  
206-481-2000

Taylor-Dunn  
2114 W Ball Rd  
Anaheim CA 92804  
714-956-4040

★ Tecumseh Products Co  
900 North St  
Grafton WI 53024  
414-377-2700 ext 640

Teledyne Princeton  
955 W Walnut St  
Canal Winchester OH 43110-0246  
614-837-9096  
800-331-5851

Teledyne Total Power  
3409 Democrat Rd  
Memphis TN 38118  
901-369-4053

Tennant Co  
701 N Lilac Dr  
Minneapolis MN 55440  
612-540-1200  
800-553-8033

Terracare Products Co  
PO Box 506

Pardeeville WI 53954  
608-429-3402

Terrain Vehicles Inc  
221 Mitchell Court  
PO Box 418  
Addison IL 60101  
312-953-8747

Thompson Seeder Co  
US Hwy 35 S  
PO Box 776  
Logansport IN 46947  
219-753-6366

★ Toro Co  
8111 Lyndale Ave S  
Bloomington MN 55420  
612-888-8801

Toro Co Irrigation Div  
5825 Jasmine St  
Riverside CA 92504  
714-688-9221

Toyota Motor Sales USA Inc  
19001 S Western Ave  
Torrance CA 90509  
213-618-4000

Trebor Corp  
4045-A Jonesboro Rd  
Forest Park GA 30050  
404-366-0957

Trojan Battery Co  
12380 Clark St  
Santa Fe Springs CA 90670  
213-946-8381

Tuflex Mfg Co  
1406 SW Eighth St  
Pompano Beach FL 33060  
305-785-6402

Turfco Mfg Co  
3456 N Washington Ave  
Minneapolis MN 55412  
612-588-0741

Turf Vac Corp  
15701 Graham St  
Huntington Beach CA 92649  
714-898-9382

Vaughans Seed Co  
Chimney Rock Rd  
PO Box 469  
Bound Brook NJ 08805  
201-356-4200

Vermeer Mfg Co  
New Sharon Rd  
PO Box 200  
Pella IA 50219  
515-628-3141

Vicon Farm Machinery Inc  
3741 Cook Blvd  
PO Box 6313  
Chesapeake VA 23323  
804-485-1600

Waldon Inc  
201 W Oklahoma Ave

Fairview OK 73737  
405-227-3711

Walker Mfg Co  
1839 E Harmony Rd  
Fort Collins CO 80525  
303-226-1514

★ Warren's Turf Nursery Inc  
Cordelia & Chadbourne Rds  
PO Box 459  
Suisun City CA 94585  
707-422-5100

Weather-matic  
3301 W Kingsley Rd  
Garland TX 75041-2207  
214-278-6131

★ Wells Cargo Inc  
McNaughton St  
PO Box 728-810  
Elkhart IN 46515  
219-264-9661  
800-348-7553

Westendorf Mfg Co  
Hwy 175  
PO Box 29  
Onawa IA 51040  
712-423-2762

Western Wood Structures Inc  
20675 SW 105 St  
PO Box 130  
Tualatin OR 97062  
503-692-6900

★ Westheffer Co  
1235 N Third St  
PO Box 363  
Lawrence KS 66044  
913-843-1633

Weyerhaeuser Co  
EF-4  
Tacoma WA 98477  
206-924-3138  
800-443-9179

Wheel Horse Products Inc  
515 W Ireland Rd  
South Bend IN 46614  
219-291-3112

Wheel Spray Corp  
PO Box 97  
Delafield WI 53018  
414-646-8640

Winco/Energx Corp  
245 E Sixth St  
St Paul MN 55101-1988  
612-293-0740  
Telex: 29-0740 ENERGY STP  
Fax: 612-292-0851

Woods Div Hesston Corp  
Hwy 2 S  
PO Box 1000  
Oregon IL 61061  
815-732-2141

Woodstream Corp  
69 N Locust St

*Extra Protection - Greater Value*

# TWO YEAR WARRANTY

LIMITED

## ON ALL TECUMSEH ROTARY MOWER ENGINES

NORTH AMERICA'S MOST VERSATILE ROTARY MOWER  
ENGINE LINE UNMATCHED IN QUALITY-VALUE-WARRANTY



- ELECTRONIC IGNITION
- OIL PUMP LUBRICATION

- NO-RUST  
FUEL  
TANKS



- HIGH  
STYLE  
PREMIER  
DESIGN

- PREMIUM  
FLOAT TYPE  
ALL SEASON  
CARBURETOR  
WITH  
PNEUMATIC  
PRIMER

- AUTOMATIC  
COMPRESSION  
RELEASE

- MECHANICAL  
GOVERNOR

- SOFT-PULL RECOIL STARTER

- AVAILABLE IN HORSEPOWER RATINGS  
3.0, 3.5, 4.0 and 5.0

- UNMATCHED WORLDWIDE SERVICE FACILITIES

Circle No. 275 on Reader Inquiry Card

**TECUMSEH PRODUCTS COMPANY**  
ENGINE AND TRANSMISSION GROUP  
NEW HOLSTEIN OPERATIONS, NEW HOLSTEIN, WI 53061



(414) 898-5711

Published in:

Lawn & Garden Marketing, Building Supply Home Center, Outdoor Power Equipment, Garden Supply  
Retailer, Hardware Merchandising (Canada), Servicing Dealer, Yard & Garden

continued

Lititz PA 17543  
717-626-2125

Yamaha  
6555 Katella Ave  
Cypress CA 90630  
714-761-7304  
800-447-4700

Yard Vac Products Inc  
3849 E Ventura  
Fresno CA 93702  
209-251-7125

Yazoo Mfg Co  
3650 Bay St  
Jackson MS 39216  
601-366-6421



### 3. Chemicals

This section is broken down by chemical product with companies providing that chemical listed below. Products common name (in parentheses) and brand names are listed on the line following the company name.

#### Absorbefacient (Aquatic)

Arborchem Products Co  
(Blend of nonionic surfactants)  
Arborchem Aquatic Surfactant  
Aquashade Inc  
(Acid Blue q, Acid Yellow 23)  
Aquashade  
Nalco Chemical Co  
Nalco 2151, Nalquatic, Nalco-Trol,  
Nalco-Trol II, Sta-Put

#### Adjuvant/Carrier

Arborchem Products Co  
(Blend of nonionic surfactants)  
Arborchem Surfactant Aliphatic & Cyclic  
based natural & petroleum products &  
nonionic blended emulsifiers)  
Arborchem Clean Cut & Arborchem  
Clean Cut + Pine

Chevron Chemical Co  
(Alkylarylpolyoxyethylene, glycols, free  
fatty acids, isopropanol) Ortho X-77  
W A Cleary Corp  
Super-Wet  
Cumberland Intl Corp  
Ag-Chem Activator  
Elanco Products Co  
Improve  
Fermenta Plant Protection Co  
(Fatty amine ethoxylate) Frigate  
Fermone Chemicals Inc  
(Protein feeding stimulant) Entice  
Kalo Inc  
(Alkylarylpolyoxyethanol acids, glycol  
ethers Di-alkyl benzene dicarboxylate,  
Isopropanol) Bio-Film  
Leffingwell  
(Non-ionic surfactants) Activate, Super  
Savol; (NPK, secondary &  
micronutrients) Sorba-Spray; Sorbacide  
LESCO Inc  
LESCO Spreader Sticker, LESCO-WET  
Nature's Touch  
(Plant/microbial by-products, enzymes)  
Nutra-Aid  
PBI-Gordon Corp  
(Petroleum oil-paraffin base, surfactant  
blend) Adjumer  
Precision Laboratories Inc  
Compliment, Balance, Pen-A-Trate,  
Chem-Stik  
Safer Inc  
(Acrylic co polymer) Prostick  
Southern Mill Creek Products Co  
SMCP Spreader Sticker  
UAP Special Products Inc  
Activator 90, Bond, LI 700

#### Algaecide

Applied Biochemists Inc  
(Chelated Copper) Cutrine-Plus,  
Cutrine-Plus Granular  
Great Lakes Biochemical Co  
(Chelated Copper) Algimycin PLL-C;  
(Chelated Copper) Slow Release  
Algimycin PLL-C; (Chelated Copper)  
Algimycin PLL-C  
Hendrix and Dail Inc  
(Formaldehyde) HD Bi-O-Cide  
LESCO Inc  
(Elemental copper) Lescocide-Plus  
Nacco  
NaccoSan B-60  
Safer Inc  
(Potassium salts of fatty acids) Safer  
Mos3 & Algae Killer  
Southern Mill Creek Products Co  
A+V70 Plus

#### Antitranspirant

Aquatrols Corp of America Inc  
(Paraffin wax emulsion) Folicote  
W A Cleary Corp  
Clearspray  
Jonathan Green & Sons Inc  
Green Pro Services  
(Antidesiccant pine tar base) Vita Coad  
Nature's Touch  
(Antidesiccant) Leaf Cote Clear  
PBI-Gordon Corp  
(Polyethylenes/Polyterpines) Transfilm

Precision Laboratories Inc  
Preserve  
Safer Inc  
(Polymer) Safer for Evergreen  
Wilt-Pruf Products Inc  
Wilt-Pruf

#### Bactericide

J J Mauget Co  
(Streptomycin) Inject-A-Mycin "S"

#### Colorant

Arborchem Products Co  
(Proprietary) Bullseye  
Becker-Underwood Inc  
(Blue pattern indicator) TURFMARK;  
(blue pattern indicator) HI-Light  
industrial strength; (Oil soluble  
indicator) Bas-Oil Red

**SEE WHERE  
YOU SPRAY**

**Spray Colorant Reduces  
Skips, Drifts, Overlaps**

**Becker-Underwood**

701 Dayton Road  
Ames, IA 50010

**515-232-5907**

W A Cleary Chemical Co  
Greenzit, Super Greenzit, Super  
Greenzit C  
Jonathan Green & Sons Inc  
Dyon  
Kalo Inc  
(Alkyl-omega-hydroxypoly (oxyethylene)  
sulfate, bis (di-alkyl) sodium) 1, 4  
butanedioate) Fomark  
LESCO Inc  
(Blue indicator dye) LESCO Tracker  
Mallinckrodt Inc  
Turf Colorant, Auragreen, Vitalon  
Milliken Chemical  
(Polymeric) Blazon

**Blazon®**

**SPRAY PATTERN INDICATOR**

A non-staining colorant for  
accuracy and safety of  
pesticide applications.



Nacco  
Super Tracer Dye  
Precision Laboratories Inc  
Signal  
Royalgard Products Co  
Royalgreen  
Southern Mill Creek Products Co  
Blazon; Aquashade  
Trebtor Corp  
(Green Dye) Marker

Sorry, crabgrass. Sorry, goosegrass. You won't be checking in here this season. Not on turf areas treated with Team preemergence herbicide.

Only one group has reservations. Your turfgrass. Even bentgrass can relax, Team is that gentle.

That means with a split application you can take an all-season vacation from weeds. From upset golfers, callbacks and costly reapplications.

Application is easy and accurate. Team gets to the ground where you want it. It won't leach out, even in heavy rainfall. Once activated, it forms a zone of protection that shuts

the door on weeds for up to 20 weeks.

Team is widely available on dry fertilizer from leading formulators, and in granular form from your distributor.

So if weeds are planning to visit your turf this season, tell them sorry. You've booked Team for the season. See your Elanco distributor. Or call toll-free: **1-800-352-6776**.

Elanco Products Company  
A Division of Eli Lilly and Company  
Lilly Corporate Center  
Dept. EM-455, Indianapolis, IN 46285, U.S.A.  
Team™—(bifenox+trifluralin, Elanco)  
Refer to the Team label for complete use directions.



Circle No. 115 on Reader Inquiry Card

**With Team™ on your turf,  
weeds won't check in all season long.**



## Chemicals

continued

### Defoamer

Applied Biochemists Inc  
(Silicone emulsion) Foamtrine

Arborchem Products Co  
(Polydimethylsiloxane) Arborchem  
Defoamer

W A Cleary Corp  
Cleary's Defoamer

Finn Corp  
(Aqueous emulsion of silica-in-silicon oil  
compound) Foam Chek

Great Lakes Biochemical Co  
(Silicone emulsion) Foam Out

Jonathan Green & Sons Inc

Kalo Inc  
(Dimethylpolysiloxane) Defoamer & Anti-  
Foam

LESCO Inc  
(Silicone) LESCO Defoamer

Moyer Chemical Co  
Anti-Foam, Foam Fighter

Nacco  
Antifoam

Precision Laboratories Inc  
Knockdown, Control

Rigo Co  
(Silicone) Red-Top No-Foam

UAP Special Products Inc  
Fighter F

### Drift Retardant

Arborchem Products Co  
(Hydrolyzed Polyacrylamide) Arborchem  
38-F Drift control additive

W A Cleary Corp  
Cleary's Driftproof

Nalco Chemical Co  
Nalco-Trol, Nalco-Trol II, Nalquatic

Nature's Touch  
(Polyvinyl polymer) Sta-Put

Nepera Inc  
(Polyacrylates) Viterra 800

Southern Mill Creek Products Co  
Nalco-Trol; Nalco-Trol II

UAP Special Products Inc  
38F, Chemtrol

### Fertilizer, Tree

J & L Adikes Inc  
Eeasy-Grow

W A Cleary Corp  
(Methyleneurea polymers) FLUF 18-0-0

Creative Sales Inc  
(Iron) Medicap FE; (Manganese)  
Medicap MN; (Zinc) Medicap ZN; (N-P-  
K, Fe, Mn & Zn) Medicap MD

Doggett Corp  
(NPK slow release) XL-Injecto Feed 32-  
7-7 & 12-24-24, Evergreen Special 30-7-  
10

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Lebanon, N.J. 08833

201-236-6335

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### Fall Applications of Bio Groundskeeper™ for Thatch Reduction

For a healthy, disease resistant lawn that requires less watering, strip away the blanket of thatch that blocks water and nutrients.

Reducing thatch helps lawns recover from drought and combat winter stress. Spring application continues recovery and encourages your customers to renew your lawn care program.

Research at Michigan State University rated Bio Groundskeeper™ for Thatch Reduction most effective for reducing thatch. Easy to apply liquid is ALL NATURAL.



### For Thatch Reduction

**KLM Bio-Systems, Inc.**  
10700 Normandale Blvd.  
Bloomington, MN 55437  
1-800-383-4081  
or 1-612-884-4081

Great Salt Lake Minerals & Chemicals  
Corp  
(Sulfate of Potash) GLS

Green Pro Services  
(NPK, Humic acid, Primary, Secondary  
nutrients Vita Tree & Shrub

Growth Products Ltd  
(26-0-0 Methylene diurea) Nitro-26 CRN

### NITRO-26 CRN

For Your Fertilizer Needs!

**A TRUE SOLUTION.** Nitro-26 CRN (26-0-0), is a liquid fertilizer so unique that it has all the advantages of both solutions and suspensions. In fact, it looks like a solution, but it contains long chain methylene diureas (MDU) normally found in suspensions. Low burn • Excellent stability • No special agitation • Less leaching & volatilization • Controlled nitrogen release • More uniform growth response • Longer residual response

Manufactured by

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Toll Free 1-800-NITRO 26

Hawkeye Chemical Co  
(30-0-1) Formolene LU

LaRoche Industries Inc  
(NPK) Vertagreen

Lebanon Chemical Corp  
Lebanon, Turfmaster, (Melamine) Nu-  
Tech

Leffingwell  
Vitaton Stabilized, Vitatone Sorba-  
Spray, Nutra-Phos, Nutra-Spray

LESCO Inc  
LESCO 16-10-9 Tree Stakes, LESCO 8-  
10-10 "Hi" Trace Element Tree Stakes,  
LESCO Arbor Green

Circle No. 135  
on Reader  
Inquiry Card

# We dug into the tall fescue control problem.



## So now you don't have to.

Until now, getting rid of ugly clumps of tall fescue was no easy task. The weed had to either be physically removed by digging or chemically removed by spot treating with a non-selective herbicide that left unsightly brown patches for weeks.

LESCO TFC™ Herbicide changes all that. It's the first product to provide selective spot control of tall fescue in established Kentucky bluegrass, fine fescue, bentgrass, bahiagrass and bermudagrass turf. Active at a rate of just a few ounces per acre, the convenient water dispersible granule formulation exhibits both contact and residual soil activity. It slowly eliminates tall fescue, while allowing the desirable grass to fill in.

For tall fescue control without the digging, make LESCO TFC Herbicide part of your application program.

Order today. Contact your LESCO sales representative, visit the nearest LESCO Service Center or call us toll free.



(800) 321-5325  
NATIONWIDE

(800) 686-7413  
IN OHIO

LESCO, Inc., 20005 Lake Road, Rocky River, Ohio 44116 (216) 333-9250

Always read and follow label instructions before using any chemical product.



©1988, LESCO, Inc.

Circle No. 141 on Reader Inquiry Card

We dug into the tall fescue control problem.



### The Average Person's Idea Of Overpowering Allies.

So now you don't have to.



Just now, getting rid of ugly clumps of tall fescue was an easy task. The weed had to either be physically removed by digging or chemically removed by spot treating with a non-selective herbicide that left unsightly brown patches for weeks. LESCO TFC™ Herbicide changes all that. It's the first product to provide selective spot control of tall fescue in established Kentucky bluegrass, fine fescue, bentgrasses and perennating turf. Active at a rate of just a few ounces per acre, the convenient water dispersible granule formulation controls both current and residual soil activity. It slowly eliminates tall fescue, while allowing the desirable grass to fill in. For tall fescue control without the digging, make LESCO TFC Herbicide part of your lawn care program.

Scotts TGR® Poa Annuum Control has joined forces with the Penn Pals to help you win the war on Poa.

When you apply Scotts patented TGR Poa Annuum Control to enemy-occupied territory, it weakens Poa annua, while Scotts controlled-

release fertilizer helps surrounding bentgrass thrive and overtake the Poa.

On bentgrass fairways and greens, overseeding two weeks later with one of the Penn Pals (Penncross, Penneagle, PennLinks or Pennway blend\*) helps speed up the transition

\*Fairway use only.



## The Scotts Tech Rep's Idea Of Overpowering Allies.

to desirable turf. Soon you can stand astride lush fairways and greens and declare total victory.

Your Scotts Tech Rep is ready, willing and able to help you plan your attack, and supply your TGR Poa

Annua Control and creeping bentgrass needs.

For more information, contact your Scotts Tech Rep or simply call 1-800-543-0006. In Ohio, call collect: 513-644-2900.



## Chemicals

continued

J J Mauget Co  
(Chelated Ag Minerals & NPK) Stemix;  
(Sulfates & Nitrates) Inject-A-Min Fe-Zn,  
Inject-A-Min Mn  
MCI AgSystems  
(Triamino-triazine) Nitrazine 66N  
Milorganite  
(N,P & iron with micro's) Milorganite  
Moyer & Son Inc  
(Liquid tree injection) Arborflo; (High  
Phosphorus liquid) Rootflo  
Moyer Products Inc  
Superblend 20-9-9, Container Spec 21-  
7-7  
Nature's Touch  
(Primary, secondary micronutrients)  
TES  
NOR-AM Chemical Co  
(Ureaform) NitroForm  
Par Ex  
(Isobutylidene Diurea) Woodace  
Plant Marvel Laboratories Inc  
(tree & shrub special 25-15-10) Plant  
Marvel Nutriculture Formula  
R G B Laboratories Inc  
(Chelated micronutrients/phos-citrate)  
Agri-P lex For-X; (Chelated  
Iron/phosphate-citrate) Agri-Plex FE 8%  
Ringer Corp  
(Feather, soybean & bone meal, wheat  
germ, muriate of potash, soil-micro-  
organisms) Flower & Foliage Restore

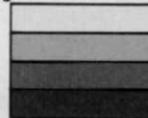
Ruffin Inc  
(Chelated granular & Liquid  
Micronutrients) Ruffin Tuff  
Sierra  
Agriform  
Southern Mill Creek Products Co  
Nutrex 20-20-20  
UAP Special Products Inc  
20-20-20  
Vigoro Industries Inc  
(IBDU; Escote) Woodace

### Fertilizer, Turf

J & L Adikes Inc  
(20-6-9.6% slow release/weed & feed/&  
w Team) Pro-Gram (Grow-Well)  
Andersons  
Tee Time  
Arcadian Corp  
(Triazone Nitrogen) N-Sure  
W A Cleary Corp  
(Mehyleneurea polymers) Fluf 18-0-0,  
Fluf 10-0-10  
Doggett Corp  
(Fast release) Turf Special 28-7-14;  
(slow release-High Iron) XL-UF Turf 34-  
4-7 & Total 35-5-6  
Coron  
(Controlled release nitrogen) Coron  
Garfield Williamson Inc Proform Turf  
Product Div

(N,P,K,S,CA, MG & Micronutrients  
C.R.N. from SCU, UF, MDU, active  
sludge IBDU, Escote) Proform  
Highperformance Turf Fertilizers

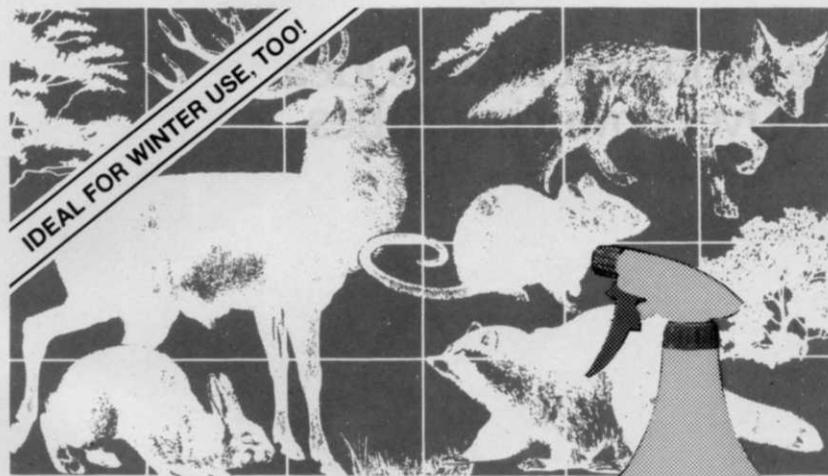
**proform**



**high performance  
turf products**

**Garfield Williamson, Inc.  
Proform Turf Products Div.**

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800 435-5296  
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STOPS ANIMAL DAMAGE FOR AN ENTIRE SEASON.  
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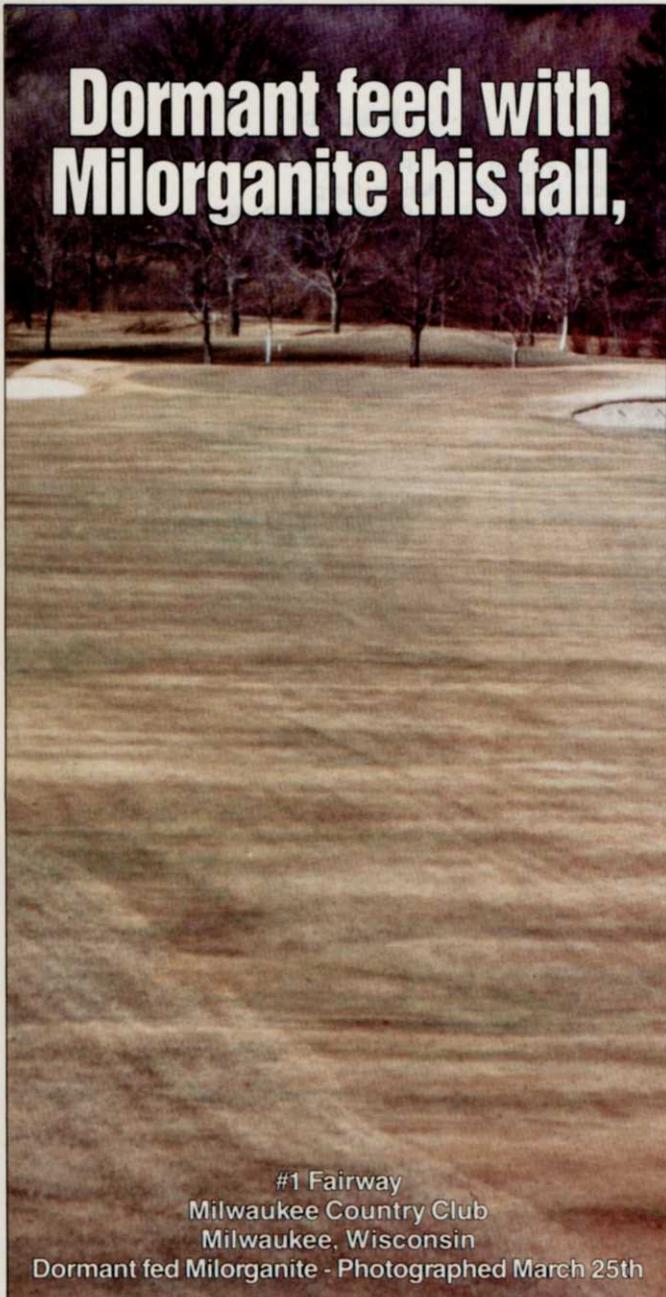
91 CAROLYN BLVD., FARMINGDALE, N.Y. 11735-1527 • PHONE: 516-694-9000 • TELEX: 6852289



Great Salt Lake Minerals & Chemicals  
Corp  
(Sulfate of Potash) GLS  
Jonathan Green & Sons Inc  
New Vigor 32-5-7, Spring Green-Up 25-  
5-5, Super Green-Up 27-3-7, New  
Seeding 14-28-15, Fall Founce Back 20-  
4-4, Winter Survival 10-20-25, Weed &  
Feed 10-4-4, Twin Green 25-5-15  
Green Pro Services  
(NPK urea) Vita Grow;  
Growth Products Ltd  
(26-0-0 Methylene diurea) Nitro-26 CRN  
Hawkeye Chemical Co  
(30-0-1) Formolene LU  
LaRoche Industries Inc  
(Diazinon, Dursban, Team, Balan,  
Ronstar, Trimene, NPK) Vertagreen  
Lebanon Chemical Corp  
Lebanon, Country Club, Greenskeeper,  
Lebanon Pro, Lebanon Custom, Green  
Gold, Turfmaster  
Leffingwell  
Vitaton Stabilized, Vitaton Sorba-  
Spray  
LESCO Inc  
(Multiple types and blends) LESCO  
MCI AgSystems  
(Triamino-triazine) Nitrazine 66N  
Milorganite  
(N,P & iron with micro's) Milorganite  
Milwaukee Metropolitan Sewerage District  
(6-2-0 Natural Organic) Milorganite  
Moyer & Son Inc  
(Liquid NP-K) Turflo; (Dry N-P-K) Profit  
Blends

Circle No. 107 on Reader Inquiry Card

# Dormant feed with Milorganite this fall,



#1 Fairway  
Milwaukee Country Club  
Milwaukee, Wisconsin  
Dormant fed Milorganite - Photographed March 25th

# And see results like this next spring



Here's the same fairway  
30 days later. Photo taken  
April 25th showing early  
green-up effect of dormant fed Milorganite.

## Why Dormant Feed Milorganite?

### Reduce Operating Costs

You'll save time and money. Apply Milorganite in late fall for efficient labor and nutrient use. More time is available for you and your staff in late fall, and spring time crunches will be avoided when you dormant feed Milorganite.

### The W.I.N. Factor

Dormant applied Milorganite does not burn, leach, or lose its nutritive value due to a 90% Water Insoluble Nitrogen (W.I.N.) factor.

### Rich In Chelated Iron

Your turf will look great. Milorganite provides 4% min. iron and a full package of nutrients. That means an early

spring green-up without excessive growth, with the iron content carrying the rich color well into the heat of summer.

### FREE LITERATURE

Mail in the coupon below for further information or call 414-225-2222.

- Milorganite's Iron — Technical Bulletin  
 Please send other Milorganite Information

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America's Number One  
Naturally Organic Fertilizer

## Chemicals

continued

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Lawn & Golf 16-6-8, Superblend 20-9-9



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**Your full service turf and ornamental supplier:**

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- Fungicides
- Herbicides
- Safety Equipment
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NOR-AM Chemical Co

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Par Ex

(Isobutylidene Diurea) Par Ex

PBI-Gordon Corp

(Liquid-Iron & Sulphur, Urea) Ferrimec  
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**Soil Moist PLUS**

- Stores water & nutrients.
- Helps control overwatering.
- Easy to use.
- Reduces soil compacting.

SOIL MOIST PLUS works unlike any other product to time release both water and nutrients into the soil. It absorbs excess water with an action similar to that of a sponge and when the surrounding soil becomes dry, the product discharges the water into the soil as needed. As water is released, nutrients are also released into the soil.

Write or call for free fact sheet.

**JRM**

JRM Chemical Division  
110 West Streetsboro  
Hudson, Ohio 44236  
(216) 656-4010



Plant Marvel Laboratories Inc  
(Bent special 28-8-18, Bermuda special 25-5-20, Lawn Marvel 28-18-8, Potach Special 10-20-30, Super Start 12-45-10, No Phosphate Special 25-0-25, Hi K Special 13-0-44) Plant Marvel Nutriculture Formula  
Rhone Poulenc-Chipco Group (Micronutrients) Microgreen  
R G B Laboratories Inc (Chelated micronutrients/phos-citrate) Agri-Plex For-X; (Chelated Iron/phosphate-citrate) Agri-Plex FE 8%; (Chelated Iron plus 8% sulfur) Lawn-Plex 8% FE

Unequaled Micronutrient Technology



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Ringer Corp

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Ruffin Inc

(Chelated granular & Liquid Micronutrients) Ruffin Tuff

O M Scott & Sons Co

(Methylene Ureas, Urea, Ammuniated phosphate, potassium sulfate) Proturf HD Fairway, Proturf Fluid Greens; (Sulfur-llated Ures, Urea, Ammuniated Phosphate, Potassium chloride) Proturf Fertilizer; (Triazone, Urea, Potassium purphosphate) Proturf Fluid Fertilizer

Sierra

Agriform

Southern Mill Creek Products Co

Nutrex 20-20-20

Triazone Corp

(liquid urea triazone nitrogen source) N-Sure

UAP Special Products Inc

20-5-5 w Peudimethalin

Triazone Corp

(liquid urea triazone nitrogen source) N-Sure

Vigoro Industries Inc

(IBDU; IBDU/SCU, Escote) Par Ex

Warren's Turf Nursery Inc

(10-8-4(15) All Purpose Lawn Food; (6-20-20) Lawn Starter; (18-5-8) Slow Release; (25-3-9) Timed Released IBDU; (25-3-9) Weed & Feed

### Fungicide, Tree

Elanco Products Co

(Fenarimol) Rubigan

Fermenta Plant Protection Co

(Chlorothalonil) Daconil 2787 Flowable, Daconil 2787 W-75

Kincaid Enterprises Inc

(Chloroneb) KE Terraneb SP

LESCO Inc

(Mancozeb) LESCO 4 80WP; (Maneb, Zinc) LESCO 4 Flowable with Zinc

Mallinckrodt Inc

(Zn, Mn, Thiophanate Methyl) Zyban

J J Mauget Co

(DEBC) Fungisol; (Oxycarboxin) Fungisol PV

Mobay Corp

(Triadimefon) Bayleton

Sierra

Duo San

Rhone Poulenc-Chipco Group

(Iprodione) Chipco 26019

Royalgard Products Co

(Thiophanate Methyl) Chariot; (Penncozeb) Shield

Safer Inc

Safer Garden Fungicide

Southern Mill Creek Products Co  
Tersan 1991

Valent USA Corp

(Triforine) VALENT Triforine EC

### Fungicide, Turf

J & L Adikes Inc

Benomyl, Bayleton, Tersan 1991

CelPril Industries

(Seed coating) Apron

Ciba Geigy Corp

(Metalaxyl) Subdue; (Propiconazole) Banner; (Metalaxyl/Mancozeb) Pace

W A Cleary Corp

(Thiram) Spotrete 75 WDG; (Thiophanate ethyl) 3336-WSB; (Phenylmercuric acetate) PMAS

E I DuPont de Nemours & Co

(Benomyl) Tersan 1991 DF; (Mancozeb) Tersan LSR

Elanco Products Co

(Fenarimol) Rubigan

Fermenta Plant Protection Co

(Chlorothalonil) Daconil 2787 Flowable, Daconil 2787 W-75

Gustafson Inc

(Metalaxyl) Apron-FL Seed Treatment Fungicide; (Thiram) Gustafson 42-S

Thiram Fungicide & Repellent

Jonathan Green & Sons Inc

Banol, Bayleton 0.5% G Granular, Bayleton 25 WP, Chipco 26019 Flowable, Daconil 2787, Dyrene 4L, Rubigan A S Flowable, Tersan 1991

Hendrix & Dail Inc

(Chloropicrin) HD—Pic Fumigant

Lebanon Chemical Corp

(Bayleton) Lebanon; (Chlorothalonil) Green Gold, Lebanon

LESCO Inc

(Mancozeb) Lesco (PCNB) LESCO PCNB 10%; LESCO 1.0% Bayleton; (Thiram) LESCO Thiram 75DG; LESCO Benomyl DG

Mallinckrodt Inc

(Mercuric Chloride, Mercurous Chloride) Calo-Clor, Calo-Gran; (Cadmium Succinate) Cadminate; (Zn, Mn EBCD, Thiophanate Methyl) Duosan;

(Thiophanate Methyl) Fungo 50;

(Cadmium Sebecate, Potassium, Chromate, Thiram) Kromad; (Ethazol)

Koban 30, Koban 1.3G; (Thiram)

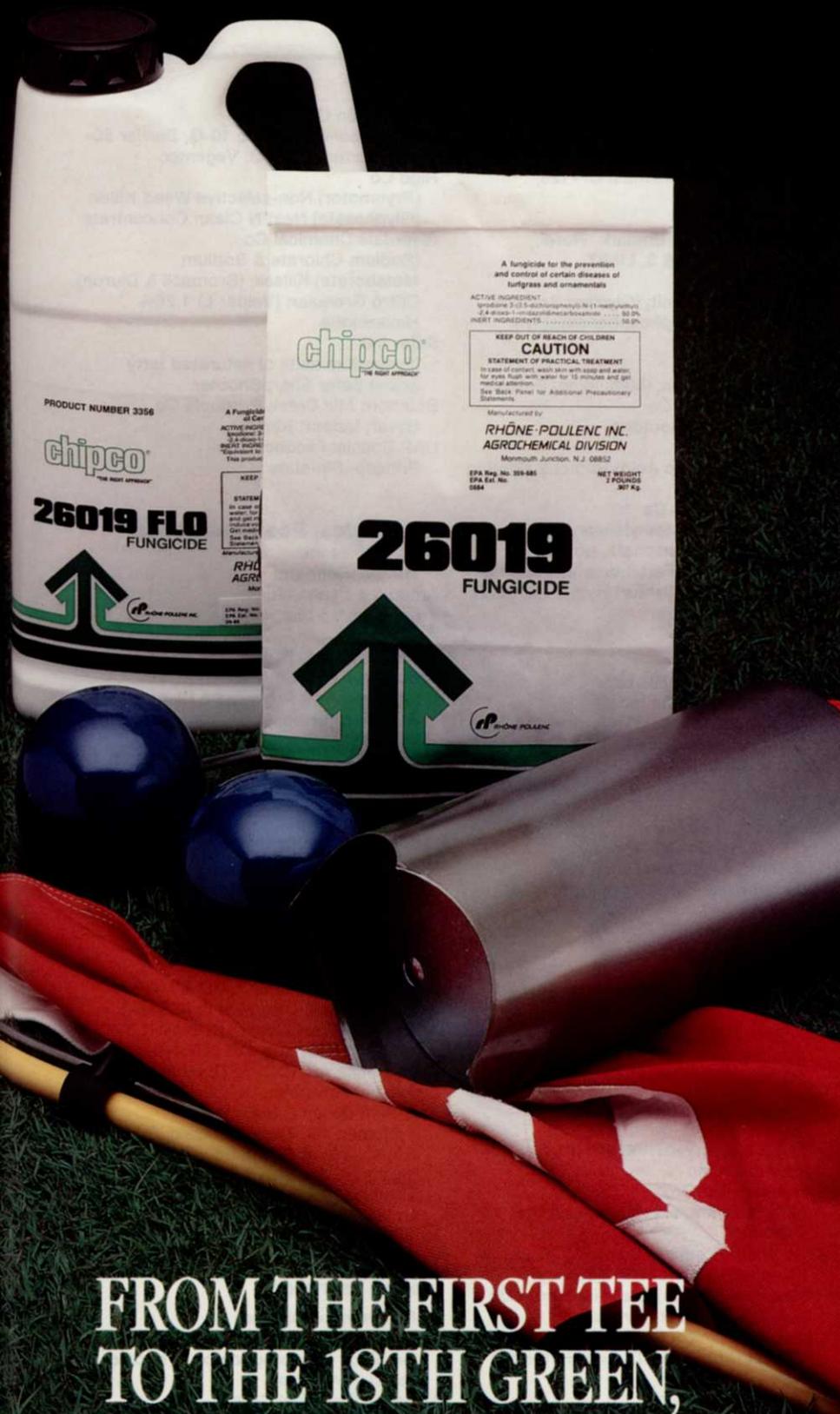
Thiramad

Mobay Corp

(Triadimefon) Bayleton; (Anilazine)

Dyrene

Circle No. 130 on Reader Inquiry Card



For season-long, full-course protection, base your disease control program on CHIPCO 26019 fungicide.

When it comes to season-long, full-course protection, more and more superintendents are building their disease control programs around CHIPCO 26019 fungicide. That's because CHIPCO 26019 fungicide offers more important features than any other turf fungicide.

First of all, CHIPCO 26019 fungicide provides unsurpassed control of all major turf diseases: Helminthosporium Leaf Spot and Melting Out, Dollar Spot, Brown Patch, Fusarium Blight and Red Thread. Plus, CHIPCO 26019 fungicide protects against Pink and Gray Snow Mold as well as Fusarium Patch.

Secondly, CHIPCO 26019 fungicide delivers the longest-lasting disease control you can buy. Just one application protects your turf up to four full weeks.

Based on cost per day of control, CHIPCO 26019 fungicide ranks as your best fungicide value. That makes it the ideal replacement for fairway disease control.

You'll also like the fact that CHIPCO 26019 is easy on the environment, with no phytotoxicity. And now you can choose between two convenient formulations—wetable powder or flowable.

This season, cover your course with the best in disease control. CHIPCO 26019 fungicide.

Rhone-Poulenc Ag Company, CHIPCO Department, P.O. Box 12014, Research Triangle Park, NC 27709.



# CHIPCO<sup>®</sup> 26019

FUNGICIDE

**RP** RHÔNE-POULENC AG COMPANY

Please read label carefully and use only as directed. CHIPCO<sup>®</sup> is a registered trademark of Rhone-Poulenc.

Circle No. 163 on Reader Inquiry Card

FROM THE FIRST TEE  
TO THE 18TH GREEN,  
NOTHING CONTROLS TURF  
DISEASES LIKE  
CHIPCO<sup>®</sup> 26019.

FUNGICIDE

## Chemicals

continued

NOR-AM Chemical Co  
(Propamocarb) Banol  
PBI Gordon Corp  
(Chloroneb) Teremec SP (Fore) Formec  
80  
Rhône Poulenc-Ag Co  
(Iprodione) Chipco 26019; (Aluminum  
Tris) Chipco Aliette

### CHIPCO® 26019

brand fungicide—  
long lasting control of  
most major turf diseases.

### CHIPCO® ALIETTE®

brand fungicide—  
A firm foundation for  
your Pythium control  
program.

Rigo Co  
(Chlorothalonil) Lawn & Garden  
Fungicide  
Ringer Corp  
(Bacterial type) Turf Restore  
Royalgard Products Co  
(Thiophanate Methyl) Chariot;  
(Penncozeb) Shield  
Safer Inc  
(Sulfur) Safer Garden Fungicide  
O M Scott & Sons Co  
(Thiophanate-methyl, Iprodione) Proturf  
Fluid Fungicide; (PCNB) Proturf FF II;  
(Tilladimefon, Metalaxyl) Proturf Fluid  
Fungide II;  
Sierra  
(Topsom M) Rungo; (Vinczalin) Vorlan;  
(Dithane, Topsin M) Duo San; (Mercuril  
& Mercuriols Chloride) Calo-Clor &  
Calo-Gran; (Thiram) Thiramad;  
(Etridiazole) Koban  
Southern Mill Creek Products Co  
Daconil 2787; W-75; Chipco 26019;  
Dithane F-45  
UAP Special Products Inc  
(PCNB) Nancozels

### Grass Coatings

CelPriil Industries  
Nutri-Kote, Nutri-Kote & Apron

### Growth Regulator

Abbott Laboratories  
(Gibberellic acid) PRO-GIBB  
Arborchem Products Co  
(Paclobutrazol) Clipper; (NAA, ethyl  
ester) Sprout Gard; (Metsulfuron  
Methyl) Escort; (Chlorsulfuron) Telar  
Chevron Chemical Co  
(Uniconazole) Ortho Prunit  
Elanco Products Co  
(Flurprimidole) Cutless; (Ancymidol) A  
Rest  
Fermone Chemicals Inc  
(Cytokinins) Burst Yield Booster

Jonathan Green & Sons Inc  
Limit Growth Regulator  
Leffingwell Uniroyal Chemical  
(Chlorflurenol) Maintain CF-125,  
Maintain A  
LESCO Inc  
Alar 85, A-Rest, Embark, Florel,  
Hormodin 1, 2, & 3, LIMIT  
Monsanto Co  
(Amidochlor) Limit; (Glycine, Sodium  
Sesquisalt of N-phosphonomethyl)  
Manage  
PBI-Gordon Corp  
(Atrinal) Attrimec; (Mefluidide) Embark  
Rhône-Poulenc Ag Co  
Chipco Florel, Rootone  
Rigo Co  
(Naphtheneic Acid) Rootone Rooting  
Hormone  
O M Scott & Sons Co  
(Paclobutazol, Methyleneureas,  
ammuniated phosphate, potassium  
sulfate) Proturf Fertilizer with TGR Pla  
annual control, Proturf Hybrid Bermuda  
TGR Plus Fertilizer

### Herbicides, Aquatic

Applied Blochemists Inc  
(Diquat Dibromide) Weedtrine-D; (2,4-D  
granular) Weedtrine II  
Chevron Chemical Co  
(Diquat Dibromide) Diquat Herbicide-  
H/A  
Elanco Products Co  
(Fluridone) Sonar  
Monsanto Agricultural Co  
(Isopropylamine salt of Glyphosate)  
Rodeo  
Rhône-Poulenc AG Co  
Aquakleen  
Riverdale Chemical Co  
(2,4-D) 2,4-D Granules, Weedestroy  
AM-40  
Southern Mill Creek Products Co  
Aquozone; Aquathol K; Hydrothol 191;  
Rodeo

### Herbicides, Nonselective

J & L Adikes Inc  
Ureabor, No-Gro  
American Cyanamid Agricultural Div  
Arsenal  
Arborchem Products Co  
(Bromacil) Arborchem Clearway;  
(Bromacil/Diuron) Granular Herbicide  
Rail-X & Granular Herbicides  
Chevron Chemical Co  
(Diquat Dibromide) Diquat Herbicide-  
H/A  
Elanco Products Co  
(Tebuthiuron) Spike  
Hoechst-Roussel Agri-Vet Co  
(Glufosinate-ammonium) Ignite  
Herbicide  
Jonathan Green & Sons Inc  
Round-up  
LESCO Inc  
(Sodium metaborate tetrahydrate,  
sodium chlorate, bromacil) Lescobar  
Monsanto Agricultural Co  
(Isopropylamine salt of Glyphosate)  
Roundup & Nomix

PBI-Gordon Corp  
(Dichlobenil) Nordsac 10-G, Barrier 50-  
W; (Prometon 2,4-D, Vegemec  
Rigo Co  
(Pryomotor) Non-selective Weed Killer;  
(Glyphosate) Neat'N Clean Concentrate  
Riverdale Chemical Co  
(Sodium Chlorate & Sodium  
Metaborate) Killsall; (Bromacil & Diuron)  
DiBro Granular; (Velpar L) 1.25%  
Hexazinone  
Safer Inc  
(Potassium salts of saturated fatty  
acids) Safer SharpShooter  
Southern Mill Creek Products Co  
Hyvar; Velpar; Karmes  
UAP Special Products Inc  
Princep, Simatine

### Herbicides, Postemergence

J & L Adikes Inc  
Trimec, Roundup  
American Cyanamid Co  
(Imazaquif) Image 1.5  
Andersons  
(Chlorflurenol) Break-Thru  
Arborchem Products Co  
(4% Bromacil) Arborchem Clearway  
Granular; (Bromacil/Diuron) Rail-X  
Granular  
BASF Corp  
(Sethoxydim) Poast; (bentazone)  
Basagran  
W A Cleary Corp  
(Disodium methanearsonate) Methar 30  
Dow Chemical USA  
(Triclopyr ester + 2,4-D) Turflon D;  
(Triclopyr ester) Turflon Ester; (Triclopyr  
amine) Turflon Amine; (Triclopyr Amine  
+ 2,4-D) Turflon II  
Fermenta Plant Protection Co  
(Dimethylene salt of 2,4-D & MCPP)  
2+2; (MSMA) Daconale 6; (MSMA)  
Bueno 6 (West Coast); (N-oleyl-1,3-  
propylene diamine salt of 2,4-D)  
Dacamine 4D; (DCPA) Dacthal W-75,  
Dacthal Flowable  
Jonathan Green & Sons Inc  
Dyclomec 4G, Trimec Classic, Super  
Trimec, Weed-E-Rad 360 DSMA;  
Basagran, Acclaim 1 EC, Trimec  
Granules, Turflon D, Weedone DPC  
Amine  
Hoechst-Roussel Agri-Vet Co  
(Fenoxaprop-ethyl) Acclaim 1EC

### SEE AD NEXT PAGE

LaRoche Industries Inc  
(Trimene, Dichlorophenoxyacetic acid,  
2-methyl-4-Chlorophenoxy propanoic  
acids) Vertagreen  
Lebanon Chemical Corp  
(2,4-D & MCPP) Lebanon, Country Club,  
Green Gold, Turfmaster  
LESCO Inc  
(2,4-D & 2,4-DP)LESCO, LESCO  
Weedone DPC; (2,4-D, MCPP &  
dicamba) LESCO Three-Way; (2,4-D)  
LESCO A-4D; (MCPP) Lescopex;  
(MCPP, 2,4-D) Lescopar; (2,4-D &  
dicamba) LESCO Dicamba plus 2,4-D  
Amine, LESCO Eight-One; (MSMA)  
LESCO MSMA 6.6; (Bromoxynil) LESCO  
Brominal

# WHEN TURF IS READY TO GROW, NITROFORM<sup>®</sup> IS READY TO GO

**Consistent 38% nitrogen**

**Decreased thatch build-up**

**Nitrogen released slowly for sustained turf feeding during active growth periods**

**Available in Blue Chip<sup>®</sup>, Gray Chip<sup>™</sup> and new Blue Granular<sup>™</sup> for dry application; Powder Blue<sup>®</sup> and Powder Gray<sup>™</sup> for spray application.**

**Nonburning and nonleaching**

**Odorless and pathogenfree**

For Quality Nitrogen  
**NITROFORM**<sup>™</sup>

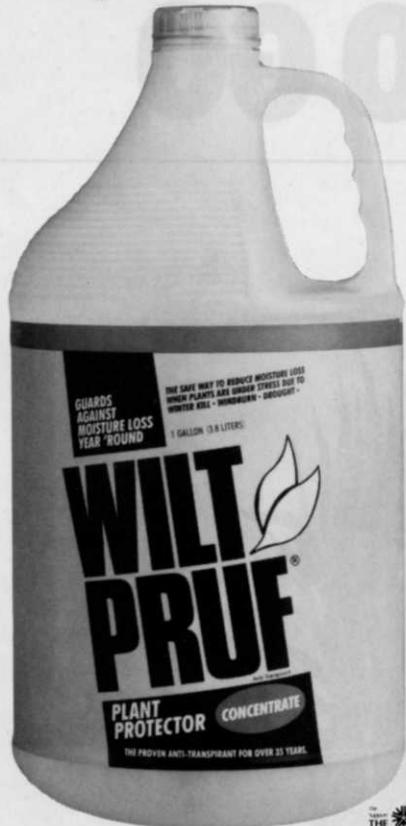
Always look for the NITROFORM<sup>®</sup> logo.  
It's your assurance of high-quality nitrogen.

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NOR-AM CHEMICAL COMPANY

3509 Silverside Road, P.O. Box 7495, Wilmington, DE 19803

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and landscapers  
for over 40 years...  
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Wilt-Pruf® is the proven way to reduce moisture loss and drying out when plants are under stress due to transplant shock, summer or winter wind-burn and drought. Use whenever transplanting. Also excellent for protection during shipping and storage. Organic and biodegradable, Wilt-Pruf is the safe way to guard against moisture loss year 'round.

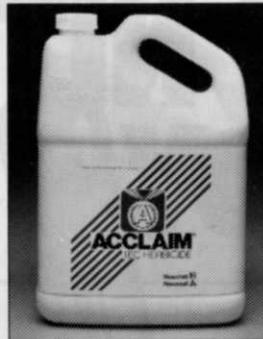
Order Wilt-Pruf from your distributor today.



P.O. Box 4280, Greenwich, CT 06830-0280  
203/531-4740

## Chemicals

continued



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**Hoechst**  
**Roussel**

Marketed by: Hoechst-Roussel Agri-Vet Co., Somerville, NJ 08876

Mallinckrodt Inc  
(Dicamba, 2,4-D, MCRP) Trexsan  
Mobay Corp  
(metribuzin) Sencor  
Monsanto Agricultural Co  
(Glyphosate, Isopropylamine Salt Of)  
Roundup & Nomix  
Nature's Touch  
(2,4-D + MCPP) D-Weeder 4X  
NOR-AM Chemical Co  
(Ethofumesate) Progress  
PBI-Gordon Corp  
(Esters of 2,4-D & 2,4-DP + Dicamba)  
Super Trimec; (2,4-D, MCPP +  
Dicamba) Trimec; (Dichlobenil) Dyclome  
4-G, Norsac 4-G  
Rhone-Poulenc-Ag Co  
(2,4-D, 2,4-DP) Chicco Weedone DPC &  
with Amine; (Bromoxynil) Bucril;  
(Asulam) Asulox  
Rigo Co  
(MSMA) Crabgrass Killer; (2,4-D,  
Dicamba) Super D Weedone  
Riverdale Chemical Co  
(MCPA, MCPP & 2, 4-DP/Amine)  
Triamin II; (2,4-D Amine) Weedestroy  
AM-40, Turf Weedestroy D; (2,4-D,  
MCPP & 2,4-DP/Amine) Triamine; 2,4-  
D/MCPP & 2,4-DP/IOE) Tri-Ester;  
(MCPA, MCPP & 2, 4-DP/IOE) Tri-Ester  
II; (2,4-D & 2,4-DP/IOE) Turf D + DP,  
Brush Killer; (Mecoprop/Amine)  
Weedestroy MCPP, MCPP-4;  
(Mecoprop/IOE) MCPP L.V. Ester; (2,4-  
D & Dichlorprop) 2 D + 2 DP Amine;  
(Dichlorprop/IOE) DP 4 Ester  
Royalgard Products Co  
(2,4-DP, MCPP, MCPA) Sabre

O M Scott & Sons Co  
(2,4-D, MCPP & Dicamba) ProTurf  
Fertilizer with Dicet weed Control III;  
(Atrazine, Methylene ureas, Urea,  
Ammuniated Phosphate, Muriate of  
potash) Proturf St Augustine Weed  
Control plus Fertilizer; (Dicamba)  
Proturf K-O-G  
Sierra  
(MCPP, Dicamba, 2-4 D) Tres-San  
Southern Mill Creek Products Co  
Roundup; MSMA 6.66  
UAP Special Products Inc  
MSMA, Mecamine - D, Four Power Plus

**UAP**  
**THE SOURCE.**

For  
Professional Turf Care Products

Fertilizers Insecticides  
Herbicides Fungicides  
Irons

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**Natl WATS: 1-800-228-0096**  
**1-402-727-8689**

**UAP**  
Special Products  
P.O. Box 1467  
Fremont, NE 68025

Valent USA Corp  
(Diquat dibromide) Valent Diquat  
Herbicide HIA

### Herbicides, Preemergence

J & L Adikes Inc  
Balan, Team Casoron, Treflan  
American Cyanamid Co  
(Pendimrthalin) Lesco Pre-M 60DG,  
Scott's Weedgrass Killer  
Arborchem Products Co  
(Sulfometuron) Oust; (Diuron &  
Bromacil) Krovar I; (Oryzlan) Surflan AS;  
(Pendimethlin) Stomp  
Ciba Geigy Corp  
(Metalachlor) Pennant  
Elanco Products Co  
(Oryzalin) Surflan; (Isoxaben) Gallery;  
(Benfenin) Balan; (Oryzalin, Benfenin) XL;  
(Benfenin, Trifluralin) Team; (Isoxaben +  
Oryzalin, Isoxaben + Trifluralin)  
Snapshot  
Fermenta Plant Protection Co  
(DCPA) Dacthal Flowable, Dacthal W-75  
Jonathan Green & Sons Inc  
Balan, Ronstar G, Dacthal 5G,  
Dyclomec 4G, Surflan, Team 2% G,  
Treflan 5G

Circle No. 175 on Reader Inquiry Card



## How to prepare your turf for a winter vacation before autumn leaves.

Before your turf takes a winter vacation, treat it to a full-course meal of Country Club Fall Fertilization Products.

Country Club 8-4-24, 13-25-12 and 18-0-18 fertilizers are specially formulated to revitalize your turf after summer's stress and prepare it for the winter months ahead. High in phosphorus, potassium and other nutrients, these homogeneous fertilizers will provide a balanced feeding to help increase plant vigor, improve disease resistance and assure winter hardiness.

When your turf returns in the spring, it will be well nourished and rested, thicker and greener—ready to take on your course's toughest assignments.

For more information on our premium quality Country Club Fall Fertilization Products and our early order program, phone your local Lebanon distributor today. Or call our Greenline at 1-800-233-0628 or 1-717-273-1685.

**Lebanon**  
TOTAL TURF CARE

A division of Lebanon Chemical Corporation

P.O. Box 180 • Lebanon, PA 17042

Circle No. 140 on Reader Inquiry Card

## Chemicals

continued

LaRoche Industries Inc  
(Team, Balan, Surfian, Ronstar)  
Vertagreen  
Lebanon Chemical Corp  
(Benefin) Country Club, Lebanon,  
Turfmaster, Green Gold; (Bensulide)  
Lebanon, Country Club; (DCPA)  
Lebanon, Country Club; (Oxidiazon)  
Country Club; (Benefin & Trifluralin)  
Country Club, Green Gold; (Trifluralin)  
Lebanon, Green Gold; (Siduron)  
Lebanon, Green Gold  
LESCO Inc  
(Sulfonylurea) LESCO TFC  
Mallinckrodt Inc  
(Bensulide) Presan  
Mobay Corp  
(metribuzin) Sencor  
NOR-AM Chemical Co  
(Ethofumesate) Prograss  
PBI-Gordon Corp  
(Dichlobenil) Norosac 4-G, Dyclomec 4-  
G; (Bensulide) Bensumec 4LD  
Rhône-Poulenc Ag Co  
(Oxadiazon) Chipco Ronstar

**CHIPCO® RONSTAR®**  
brand herbicide—  
effective, long-lasting  
preemergent weed control  
without root pruning.

Royalgard Products Co  
(Bensulide) Roysan  
O M Scott & Sons Co  
(Pendimethalin, Methylene urea)  
ProTurf HD Fertilizer Plus Turf  
Weedgrass Control  
Sierra  
(Betasan) Pre-San  
Southern Mill Creek Products Co  
Ronstar  
UAP Special Products Inc  
Betasan, Dacthal, Weedgrass Control

### Insecticides, Tree

Abbott Laboratories  
(Bacillus thuringiensis) DIPEL  
J & L Adikes Inc  
(Sevin, Malathion, Methoxychlor) Gro-  
Well  
Chevron Chemical Co  
(Acephate) Orthene 75S  
Creative Sales Inc  
(Acephate) Acecap  
Kincaid Enterprises Inc  
(Methoxychlor) KE Marlata 50  
LaRoche Industries Inc  
(Malathion) Vertagreen  
LESCO Inc  
(Diazinon) LESCO Diazinon 500;  
(Chlorpyrifos) LESCO Dursban 2.32G  
Mallinckrodt Inc  
Bendiocarb, Dycarb, (Diazinon &  
Methoxychlor) Dymet; (Bendiocarb)  
Dymet  
J J Mauget Co  
(Oxydemeton-methyl) Inject-A-Cide;  
(Dicrotophos) Inject-A-Cide B

Mobay Corp  
(Disulfoton) Di Syson; (Trichlorfon)  
Dylox; (Azinphos-methyl) Guthion;  
(Oxydemeton-methyl) Metasystox-R;  
(cyfluthrin) Tempo  
NOR-AM Chemical Co  
(Bendiocarb) Turcam & Turcam 2-1/2G  
PBI-Gordon Corp  
(Fenitrothion) Pestroy  
Prentiss Drug & Chemical Co  
(Methoxychlor) Prentox 2lb  
Methoxychlor Spy; (Diazinon) Pentox  
Diazinon AG-500; (Chlorpyrifos) Pentox  
Dursban 2E  
Reuter Laboratories Inc  
(Potassium salts of fatty acids) Aphid-  
Mite Attack Concentrate  
Rhône-Poulenc Ag Co  
(Carbaryl) Chipco Sevin SL  
Royalgard Products Co  
(Carbaryl) Sevin Flowable  
Safer Inc  
(Potassium salts of fatty acids) Safer  
Insecticidal Soap  
O M Scott & Sons  
(Pendimethalin) Proturf Turf Fertilizer  
Plus Preemergent Weed Control;  
(Pendimethalin) Proturf GO WDG;  
(Siduron) Proturf Starter Fertilizer with  
Preemergent Weed Control  
D B Smith & Co  
DIPEL  
Southern Mill Creek Products Co  
Mavrik; Sevin  
UAP Special Products Inc  
Malatihien, Diazinon, Methoxychlor  
Valent USA Corp  
(Naled) DIBROM 8 Emulsive; (Lindane)  
VALENT Lindane #200 Spray;  
(Acephate) ORTHENS Turf, Tree &  
Ornamental Spray  
Zoecon Corp-Sandoz Crop Protection  
Corp  
(Fluvalinate) Mavrik Aquaflo

### Insecticides, Turf

Abbott Laboratories  
(Bacillus thuringiensis) DIPEL  
J & L Adikes Inc  
Oftanol, Dylox  
American Cyanamid Agricultural Div  
(Dimethoate) Cygon  
Andersons  
Tee Time  
Chevron Chemical Co  
(Acephate) Orthene 75S  
Ciba Geigy Corp  
(Isazofos) Triumph  
W A Cleary Chemical Co  
Sevin SL; Dursban 2E, 4E, 50WP,  
50WSB  
Cumberland Intl Corp  
(Carbaryl) Crunch  
Dow Chemical USA  
(Chlorpyrifos) Dursban  
Jonathan Green & Sons Inc  
Diazinon 5%G & 14%G, Dursban  
2.32%G, Oftanol 1.5% & 5%G, Mocap  
10%G, Dylox 5%G, Proxol 80 SP; Sevin  
4L, Turcam 2.5G  
Kincaid Enterprises Inc  
(Methoxychlor) KE Marlata 50  
LaRoche Industries Inc  
(Trichlorofon) 6.2, Diazinon 5%, Dursban

2.32, 1-Naphthyl, N-methylcarbamate)  
Vertagreen  
Lebanon Chemical Corp  
(Chlorpyrifos) Country Club, Green  
Gold, Turfmaster, Lebanon; (Isofenfos)  
Lebanon, Country Club; (Dimethyl  
Phosphonate) Lebanon; (Diazinon)  
Lebanon  
LESCO Inc  
(Trichlorfon) LESCO Dylox 5G;  
(Diazinon) LESCO Diazinon 500, 5G &  
14G; (Chlorpyrifos) LESCO Dursban  
2.32G; (Isofenfos) LESCO Oftanol  
1.5G; (Carbaryl) LESCO Sevin Brand SL  
Maag Agrochemicals Inc  
(Fenoxycarb) Logic  
Mallinckrodt Inc  
Diazinon & Methoxychlor, Dymet  
Mobay Corp  
(Trichlorfon) Dylox; (Isofenfos) Oftanol;  
(Cyfluthrin) Tempo  
NOR-AM Chemical Co  
(Bendiocarb) Turcam; (Trichlorfon)  
Proxol  
PBI-Gordon Corp  
(Carbaryl) Carbanec; (Fenoxycarb on  
vegetable oil-coated expanded corn  
grit) Logic Fire Ant Bait  
Prentiss Drug & Chemical Co  
(Chlorpyrifos) Prentox Dursban 2E  
Reuter Laboratories Inc  
(Spores of bacillus popilliae Dutky) Grub  
Attack  
Rhône-Poulenc Ag Co  
(Ethoprop) Chipco 10G; (Carbaryl)  
Chipco Sevimol & Sevin SL

### CHIPCO® SEVIN® SL

brand carbaryl insecticide—  
effective, economical  
and environmentally  
favorable control of  
grubs and many other insects.

Rigo Co  
(Diazinon) Diazinon 2E; (Oftanol) Turf  
Saver; (Avermectin) Affirm Fire Ant Bait  
Safer Inc  
(Potassium salts of fatty acids) Safer  
Insecticidal soap moss killer for lawns  
O M Scott & Sons Co  
(Chlorpyrifos) ProTurf Fertilizer Plus  
Insecticide III; (Diazinon) Insecticide I;  
(Isofenfos) Insecticide IV  
D B Smith & Co  
(resmethrin) BURGESS  
Southern Mill Creek Products Co  
Dursban 2E; Diazinon 4E  
Southern Mill Creek Products Co  
Dursban 2E; Diazinon 4E  
UAP Special Products Inc  
(Bendiocarb) Turcam-Sevin Granuals,  
Carbaryl, Diazinon White Grub Gran  
Valent USA Corp  
(Acephate) ORTHENE Turf, Tree &  
Ornamental Spray; (Methiocarb) SLUG-  
GETA Granules and Snail & Slug Bait  
pelleted  
Zoecon Corp-Sandoz Crop Protection  
Corp  
(Fluvalinate) Mavrik Aquaflo



## Handle your grub situation fast, before things get really ugly.

At the very first sign of grub damage, apply DYLOX<sup>®</sup> insecticide. Nothing kills all species of white grubs faster. Within hours, the grubs are dying and the turf is recovering. When grubs threaten, act fast.

Use DYLOX. And turn an ugly little problem into a lot of beautiful turf.

For more information, contact Mobay Corporation, Specialty Products Group, Box 4913, Kansas City, MO 64120.

### Dylox

**Mobay Corporation**  
A Bayer USA INC COMPANY

**Bayer** 

continued

**Miticides**

Fermone Chemicals Inc  
(Mite pheromone) Stirrup  
Mobay Corp  
(Oxythioquinox) Morestan  
Safer Inc  
(Potassium salts of fatty acids) Safer  
Mile Killer  
Southern Mill Creek Products Co  
Deltic  
Zoecon Corp-Sandoz Crop Protection  
Corp  
(Dienochlor) Pentac Aquaflow

**Mulches & Erosion Control**

Cellin Mfg Inc  
Cellin Fiber Mulch, Cellin-K, Cellin Seal  
Finn Corp  
Fiber Plus; Hydro Stik  
Grass Growers Inc  
Terra Tack I, III, AR, MP  
Jacklin Seed Co  
Jacklin Organic Mulch  
Jonathan Green & Sons Inc  
J G Hydro Seeding Fibermulch, Curlex  
Erosion Control Blanket, Jute Netting,  
Cellins Fibermulch  
Hoechst Celanese Corp  
(100% Polyester fibers) Earth Blanket  
Nepera Inc  
(Potassium Propenoate-Propenamide  
Copolymer) Viterra Gelscape  
North American Green Inc  
(Agricultural wheat straw, coconut fibers  
or combination of both) North American  
Green  
Paygro Co  
Paygro Hardwood Mulch  
PRSM  
(Vegatative gum based tachifien)  
MulchMate Tackifier; (Wood cellulose  
based fiber mulch) Quickseed  
Hydroeeding mulch  
Reemay Inc  
Typar  
Reinco Inc  
Reinco Mulch binder plus tackifier  
Soil Seal Corp  
(Copolymer based) Soil Seal

**Nematicides**

Mobay Corp  
(fenamiphos) Nema-cur  
Rhone Poulenc-Chipco Group  
(Ethoprop) Chipco Mocap  
Southern Mill Creek Products  
Mocap; Nema-cur

**Penetrant, Metal**

LESCO Inc  
(petroleum based) Lesco 4-Way  
Lubricant  
Precision Laboratories Inc  
(Penetrating oil) Penetral; (Penetrating  
grease) Lube-2

**Pesticides, Biological**

Igene Biotechnology Inc  
(Chitin-protein Nematicide) ClandoSan  
KLM Bio Systems Inc  
Bio Groundskeeper

**Repellents, Animal**

Burlington Bio-Medical & Scientific Corp  
Ro-Pel  
W A Cleary Corp  
(Thiram) Spotrete 75 WDG  
Leffingwell  
Hinder

**Soil Amendments**

Aquatrols Corp of America Inc  
(Copolymer Acrylamide Acrylate)  
Supersorb  
Doggett Corp  
(Elemental sulfur) Nutri-Sul 90  
Finn Corp  
Hydro Gel  
Grass Growers Inc  
Terra Tack I, III, AR, MP  
Jonathan Green & Sons Inc  
Micro-Green Micro Nutrients  
Green Pro Services  
(Humus) Vita Build  
KLM Bio Systems Inc  
Bio Groundskeeper  
LESCO Inc  
(ferment & polymers) Lescozyme  
Moyer & Sons Inc  
(Chelated Iron) Microflo  
Nacco  
Soil Penetrant, Dust Binder, Spreader  
79  
Nature's Touch  
(Plant/microbial by-products, enzymes,  
wetting agents) Nutra-Aid;  
(plant/microbial by-products, enzymes,  
wetting agents; organic micronutrients)  
Relief  
Nepera Inc  
(Potassium Propenoate-Propenamide  
Copolymers) Viterra Gelscape  
PBI-Gordon Corp  
(Processed cow slurry) Bov-A-Mura  
Plant Marvel Laboratories Inc  
(Soltrace, Mag-Iron, 13% Iron, Chemel)  
Plant Marvel  
PRSM  
(Sewage sludge based soil amendment)  
Earthlife compost

**Soil Conditioner**

American Pelletizing (AMPEL)  
(Pelletized lime & gypsum) Reveille;  
(Pelletized lime) Gran U Lime  
W A Cleary Corp  
(Calcium Sulfate Gypsum F  
JRM Chemical  
Soil Moist Plus  
Kalo Inc  
(Polyoxyethylene polypropoxy-propanol,  
Alkyl 2-exhoxy-ethanol) Hydro-Wet  
Turf/Soil Wetting Agent  
LESCO Inc  
(ferment & polymers) Lescozyme  
Milorganite  
(N,P & iron with micro's) Miolorganite  
Nalco Chemical Co  
Nalco 2190  
Nature's Touch  
(Plant/microbial by-products, enzymes)  
Nutra-Aid  
Nepera Inc  
(Potassium Propenoate-Propenamide  
Copolymer) Viterra Gelscape  
Precision Laboratories Inc  
(Calcium) Liqui-Cal  
Reinco Inc  
Reinco Mulch binder plus tackifier  
Ringer Corp  
(Feather, soybean & bone meal, wheat  
germ, muriate of potash, soil-micro-  
organisms) Flower & Foliage, Turf,  
Greens Restore & Greens Restore  
Super

**Soil Fumigants**

American Pelletizing (AMPEL)  
(Pelletized Gypsum) Cal Sul  
BASF Corp  
(dazomet) Basamid  
Hendrix & Dail Inc  
(Methyl Bromide/Chloropicrin) MBC,  
MBC concentrate, MBC-33  
LaRoche Industries Inc  
Vertagreen  
Rigo Co  
(Vapam) Wilbur-Ellis Soil-Prep  
Southern Mill Creek Products Co  
Bromogas  
Trebtor Corp  
(Activated Flowable Charcoal) Flowable  
charcoal  
UAP Special Products Inc  
Basamid

**Sticker/Extender**

Arborchem Products Co  
(Proprietary) Clean Cut  
Chevron Chemical Co  
(Alkyl olefin aromatic polymers) Chevron  
Spray Sticker  
W A Cleary Corp  
Super-Wet, Super-Wet 15G  
Jonathan Green & Sons Inc  
Exhalt 800 Spreader Sticker  
LESCO Inc  
LESCO Spreader Sticker  
Precision Laboratories Inc  
(Non-ionic spreader/sticker) Chem-Stik  
Rigo Co  
(Polyoxpropylene propanol) Wilbur-Ellis  
R-56; (Octyl Phenoxy Polyethoxy

**SOIL SEAL  
CONCENTRATE**

**-A Soil Stabilizer-**  
SLOPE STABILIZATION  
DUST ABATEMENT  
TRACKIFIER

**Soil Seal Corporation**

1111 W. Sixth Street  
Los Angeles, CA 90017

**213-481-7185**

Warren's Turf Nursery Inc  
Warren's Terrabond Polyester  
Geotextile Fabrics

## Chemicals

continued

Ethanol) Wilbur-Ellis R-11; (Alky Aryl Polyoxyethylene Ether) Red Top Super Spread 200  
Southern Mill Creek Products Co  
(Isooctyl phenyl polyethoxy ethanol)  
SMCP  
UAP Special Products Inc  
Bond  
Wilt-Pruf Products Inc  
Spray-Stay

### Tree Dressings

J & L Adikes Inc  
Gro-Well  
Arborchem Products Co  
(Liquid asphalt, NAA, mineral spirits, chlorothene) Arbochem Sprout Gard  
LESCO Inc  
LESCO Pruning Paint

### Wetting Agents

Aquatrols Corp of America  
(Blend of polyoxyethylene esters of cyclic acids & alkylated phenols) Aqua-Gro  
Arborchem Products Co  
(Proprietary) Arborchem  
Chevron Chemical Co  
(Alkylaryl/polyoxyethylene, glycols, free fatty acids & isopropanol) Ortho X-77  
W A Cleary Chemical Co  
Super Wet, Super Wet 15G  
Elanco Products Co  
Improve  
Jonathan Green & Sons Inc  
Aqua-Gro  
Green Pro Services  
Vita Flow  
Kalo Inc  
(Polyoxyethylene polypropoxy-propanol, Alkyl 2-exhoxy-ethanol) Hydro-Wet Turf  
Leffingwell  
(Non-ionic surfactants) Activate  
LESCO Inc  
LESCO-WET  
Mallinckrodt Inc  
Aquadro  
Nacco  
Wetting Agent  
Nature's Touch  
(Plant/microbial by-products, enzymes)  
Nutra-Aid  
PBI-Gordon Corp  
(Oxyethylene) Aqua-Zorb  
Precision Laboratories Inc  
Pen-A-Trate  
Royalgard Products Co  
(Non-ionic) Aquagard  
Sierra  
Hydraflo  
Southern Mill Creek Products Co  
SMCP Wetting Agent Concentrate  
UAP Special Products Inc  
Activator 90, LI 700  
Valent USA Corp  
(potassium abietate, potassium oleate, iso-octyl phenoxy-poly-ethoxy ethanol)  
VALENT Spreader;  
(Alkylaryl/polyoxyethylene, glycois, free fatty acids, isopropanol) VALENT X-77 Spreader



## 4. Chemical Companies

Abbott Laboratories  
14th & Sheridan Rd  
North Chicago IL 60064  
312-937-6100

J & L Adikes Inc  
182-12 93rd Ave  
Jamaica NY 11423  
718-739-4400

Agri-Diagnostics Assocs  
2611 Branch Pike  
Cinnaminson NJ 08077  
609-829-0110

Agro-Chem Inc  
See Nature's Touch

American Cyanamid Co  
One Cyanamid Plaza  
Wayne NJ 07470  
201-831-2000

American Pelletizing (AMPEL)  
13 Island Dr  
Brick NJ 08724  
201-899-2499

Andersons  
1200 Dussel Dr  
Maumee OH 43537  
419-893-5050

Applied Biochemists Inc  
5300 W County Line Rd  
Mequon WI 53092  
414-242-5870  
800-558-5106

Aquashade Inc  
PO Box 198  
Eldred NY 12732  
914-557-8077

Aquatrols Corp of America  
1432 Union Ave  
Pennsauken NJ 08110  
609-665-1130

Arborchem Products Co  
PO Box 1567  
Fort Washington PA 19034  
215-659-7922

Arcadian Corp  
PO Box 265  
Parsippany NJ 07054  
201-829-6500

BASF Corp  
100 Cherry Hill Rd  
Parsippany NJ 07871  
201-316-3000

Becker-Underwood Inc  
701 Dayton Rd  
Ames IA 50010  
515-232-5907

★ Burlington Bio-Medical & Scientific Corp  
91 Carolyn Blvd  
Farmingdale NY 11735  
516-694-9000

Cellin Mfg Inc  
9610 Gunston Cove Rd  
Box 224  
Lorton VA 22079  
703-690-1195

CelPril Industries  
251 Oak St  
Manteca CA 95336  
209-823-1738

Chevron Chemical Co  
Agricultural Chemicals Div  
575 Market St  
San Francisco CA 94105  
415-894-6219

Ciba Geigy Corp  
Turf & Ornamental Products  
PO Box 18300  
Greensboro NC 27419  
919-292-7100

W A Cleary Corp  
1049 Somerset St  
Somerset NJ 08873  
201-247-8000

Coron  
PO Box 198  
Souderton PA 18964  
800-338-0836

Creative Sales Inc  
222 N Park Ave  
PO Box 501  
Fremont NE 68025  
402-727-4800  
800-288-8845-47

Cumberland Intl Corp  
1523 N Post Oak Rd  
Houston TX 77055  
713-682-1221

Dewitt Co  
Hwy 61 S  
RR 3 Box 338  
Sikeston MO 63801  
800-325-0950

Doggett Corp  
30 Cherry St  
Lebanon NJ 08833  
201-236-6335

Dow Chemical USA  
9001 Bldg  
Midland MI 48640  
517-636-1000

## Chemical Companies

continued

E I DuPont de Nemours & Co  
1007 Market St  
Wilmington DE 19898  
302-992-6161

★ Elanco Products Co  
Lilly Corporate Center  
Indianapolis IN 46285  
317-276-2679

Estech Branded Fertilizers  
See Par Ex

Fermenta Plant Protection Co  
5966 Heisley Rd  
PO Box 8000  
Mentor OH 44061-8000  
216-357-4100

Fermone Chemicals Inc  
1523 N Post Oak Rd  
Houston TX 77055  
713-682-1221

★ Finn Corp  
9281 Le Saint Dr  
Fairfield OH 45014  
513-874-2818

Garfield Williamson Inc  
Proform Turf Products Div  
9 Stewart Pl  
Fairfield NJ 07006  
201-882-7755  
800-435-5296

Garick Corp  
13532 Broadway Ave  
Cleveland OH 44125  
216-581-0100

Grass Growers Inc  
424 Cottage Pl  
Plainfield NJ 07060  
201-755-0923

Great Lakes Biochemical Co  
6120 W Douglas Ave  
Milwaukee WI 53218  
414-464-1200

Great Salt Lake Minerals & Chemicals  
Corp  
PO Box 1190  
Ogden UT 84402  
801-731-3100

Jonathan Green & Sons Inc  
Squankum-Yellowbrook Rd  
PO Box 326  
Farmingdale NJ 07727  
201-938-7007

Green Pro Services  
380 S Franklin St  
Hempstead NY 11550  
516-538-6444

Growth Products  
PO Box 1259  
White Plains NY 10602  
800-NITRO26

Gustafson Inc  
1400 Preston Rd

Plano TX 75075  
214-985-8877

Hawkeye Chemical Co  
PO Box 899  
Clinton IA 52732  
319-243-5800

Hendrix & Dail Inc  
803 Industrial Blvd  
PO Box 648  
Greenville NC 27835-0648  
919-758-4263

Hoechst Celanese Corp  
PO Box 5887  
Spartanburg SC 29304  
800-845-7597

Hoechst-Roussel Agri-Vet Co  
Rte 202-206 N  
Somerville NJ 08876  
201-231-4084

Igene Biotechnology Inc  
9110 Red Branch Rd  
Columbia MD 21045  
800-346-6421

Jacklin Seed Co  
W 5300 Jacklin Ave  
Post Falls ID 83854  
208-773-7581

S C Johnson and Sons Inc  
1525 Howe St  
Racine WI 53403-2237  
414-631-2000

★ JRM Chemical Div  
110 W Streetsboro  
Hudson OH 44236  
216-656-4010

Kalo Inc  
4370 W 109 St  
Overland Park KS 66211-1311  
913-491-9125

Kincaid Enterprises Inc  
Plant Rd  
PO Box 549  
Nitro WV 25143  
304-755-3377

★ KLM Bio Systems Inc  
10700 Normandale Blvd  
Bloomington MN 55437  
612-884-4081

LaRoche Industries Inc  
1100 Johnson Ferry Rd NE  
Atlanta GA 30342  
404-851-0380  
800-247-7531

★ Lebanon Chemical Corp  
1600 E Cumberland St  
Lebanon PA 17042  
717-273-1687  
800-233-0628

Leffingwell Uniroyal Chemical  
111 S Berry St  
Brea CA 92621  
714-529-3973

LESCO Inc  
20005 Lake Rd  
Rocky River OH 44116  
216-333-9250

Maag Agrochemicals Inc  
5699 N Kings Hwy  
PO Box 6430  
Vero Beach FL 32961  
305-567-7506

Mallinckrodt Inc  
PO Box 5439  
St Louis MO 63147  
800-325-7155

J J Mauget Co  
2810 N Figueroa St  
Los Angeles CA 90065  
213-227-1482

MCI AgSystems  
Div Melamine Chemicals Inc  
811 Railroad Ave  
Donaldsonville LA 70346  
504-473-3121

Milliken Chemical  
PO Box 817  
Inman SC 29349  
800-845-8502

★ Milorganite  
Div of M M S D  
735 N Water St  
Milwaukee WI 53203  
414-225-2222

★ Milwaukee Metropolitan Sewerage District  
735 N Water St  
Milwaukee WI 53202  
414-225-2222

★ Mobay Corp  
PO Box 4913  
Kansas City MO 64120  
816-242-2000

Monsanto Agricultural Co  
800 N Lindbergh Blvd  
St Louis MO 63167  
314-694-6640

Moyer & Son Inc  
113 E Reliance Rd  
Souderton PA 18964  
215-723-6001

Moyer Products Inc  
3321 W Castor St  
Santa Ana CA 92704  
714-549-2871

Nacco Tyfo  
14439 S Avalor  
Gardenia CA 90248  
213-515-1700

Na-Churs Plant Food Co  
421 Leader St  
Marion OH 43302  
614-382-5701



1. Rolling back sod where TerraFlow lines will run. 2. Cutting 2" wide trench. 3. Laying TerraFlow lines in 12" deep trench. 4, 5. Joining TerraFlow lines using only a utility knife and duct tape. 6. Fully installed TerraFlow System. Workers backfill with site soil, puddle with sand. 7. Replacing sod. 8. Completed TerraFlow System. Installation time: about 100 ft. per hour. 9. Green was back in play in 2 hours with TerraFlow. (Photos by Greg Fast, Turf Irrigation Supply, Englewood, Colorado.)

**Warren's® Turf Professionals just cut the cost of your next drainage system by 60%.**

## TerraFlow™

### Self-Contained Prefabricated Drainage Systems

... a totally new concept in more efficient drainage systems that gives you up to 30 times more drainage per linear foot than perforated drainpipe ... and goes in 3 times faster, without large crews, backhoes, gravel trucks or costly re-landscaping.

Because 95% of new TerraFlow System's surface area is available for water entry, it absorbs water into its waffle-like core without the need for extensive, costly gravel surrounding it.

Result: a completely self-contained, modern drainage system that can be installed in a fraction of the time and cost of conventional systems ... and with a minimum of surface disruption or inconvenience.

TerraFlow measures 1½" across and comes in 85 foot long rolls in 6", 12", 18", 24" and 42" depths. TerraFlow Drainage System design aids are now available for applications including: golf greens, tees and fairways ... athletic fields and general turf areas ... retaining walls ... roof gardens and planters ... roadway edges ... foundations ... pavements ... bridge abutments ... and many more.

TerraFlow is now available anywhere in the U.S. Call us for the name of the stocking dealer nearest you.  
Call 1-800-828-TURF (8873) In California call: 1-800-828-8882.

**"It always costs less to put in the best."**

**Warren's®**  
**TURF PROFESSIONALS**

Corporate Offices: Crystal Lake, Illinois 60014

For specific product information contact Warren's Seed & Special Products Division, P.O. Box 459, Suisun City, CA 94585.

7557

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## Chemical Companies

continued

- Nalco Chemical Co  
One Nalco Center  
Naperville IL 60566-1024  
312-961-9500
- Nature's Touch  
11150 W Addison St  
Franklin Park IL 60131  
312-455-6900
- Nepera Inc  
Rte 17  
Harriman NY 10926  
914-782-8171
- ★ NOR-AM Chemical Co  
3509 Silverside Rd  
PO Box 7495  
Wilmington DE 19803  
302-575-2000
- North American Green Inc  
14649 Hwy 41 N  
Evansville IN 47711  
812-867-6632
- Par Ex  
PO Box 512  
Winter Haven FL 33882-0512  
813-294-2567
- Paygro Co  
11000 Huntington Rd  
South Charleston OH 45368  
513-462-8358
- PBI-Gordon Corp  
1217 W 12 St  
Kansas City MO 64101  
816-421-4070
- Plant Marvel Laboratories Inc  
371 E 16 St  
Chicago Heights IL 60411  
312-757-7500
- ★ Precision Laboratories Inc  
PO Box 127  
Northbrook IL 60065  
312-498-0800
- Prentiss Drug & Chemical Co  
CB 2000  
Floral Park NY 11001  
516-326-1919
- PRSM  
882 Matlack St Unit E  
West Chester PA 19382  
215-430-3960
- ★ Reemay Inc  
Industrial Rd  
Old Hickory TN 37138  
615-847-7000
- ★ Reinco Inc  
520 North Ave  
PO Box 512  
Plainfield NJ 07060  
201-755-0921  
800-526-7687
- Reuter Laboratories Inc  
8450 Natural Way  
Manassas Park VA 22111  
800-368-2244
- R G B Laboratories Inc  
1531 Charlotte St  
Kansas City MO 64108  
816-474-3342
- ★ Rhone Poulenc-Ag Co  
2 T W Alexander Dr  
PO Box 12014  
Research Triangle Park NC 27709  
919-549-2221
- Rigo Co  
PO Box 189  
Buckner KY 40010  
502-222-1456
- Ringer Corp  
9959 Valley View Rd  
Eden Prairie MN 55344  
612-941-4180
- Riverdale Chemical Co  
425 W 194 St  
Glenwood IL 60425-1584  
312-754-3330
- Royalgard Products Co  
2727 Paces Ferry Rd  
Atlanta GA 30339  
404-396-8899
- Ruffin Inc  
Box 940  
Dodge City KS 67801  
316-225-0071
- Safer Inc  
60 William St  
Wellesley MA 02181  
617-237-9600
- ★ O M Scott & Sons Co  
14111 Scottslawn Rd  
Marysville OH 43041  
513-644-0011 (OH call collect)  
800-543-0006
- ★ Sierra  
(HQ) 1001 Yosemite Dr  
Milpitas CA 95035  
800-346-0201  
12101 Woodcrest Exec Dr #190  
St Louis MO 63141  
800-346-0201
- D B Smith & Co  
414 Main St  
Utica NY 13501  
315-735-5223
- Soil Seal Corp  
1111 W Sixth St  
Los Angeles CA 90017  
213-481-7185
- Southern Mill Creek Products Co  
5414 N 56 St  
Tampa FL 33610  
813-626-2111
- Triazone Corp  
One Gatehall Dr  
PO Box 265  
Parsippany NJ 07054  
201-829-6500
- Trebor Corp  
4045-A Jonesboro Rd  
Forest Park GA 30050  
404-366-0957
- UAP Special Products Inc  
1035 E Dodge St  
Fremont NE 68025  
402-727-8689
- Valent USA Corp  
1333 N California Blvd  
Walnut Creek CA 94596  
415-256-2700
- Vigoro Industries Inc  
2121 Third St SW  
PO Box 512  
Winter Haven FL 33882-0512  
813-294-2567
- ★ Warren's Turf Nursery Inc  
Cordelia & Chadbourne Rds  
PO Box 459  
Suisun City CA 94585  
707-422-5100
- ★ Wilt-Pruf Products Inc  
247 Byrum Shore Rd  
PO Box 4280  
Greenwich CT 06830  
203-531-4740
- Zoecon Corp-Sandoz Crop Protection Corp  
PO Box 10975  
Palo Alto CA 94303  
415-857-1130



## 5. Seed Companies

- J & L Adikes Inc  
182-12 93rd Ave  
Jamaica NY 11423  
718-739-4400  
Kentucky Bluegrasses: Adelphi, Merit, S-21; Perennial Ryegrasses: All Star, Derby, Regal; Fescues: Creeping, Chewing, Hounddog Tall; Turfseed Mixes or Blends: made to specifications
- Am-Sod Inc  
2606 Hollister St  
San Diego CA 92154  
619-428-6112  
Sod/Sprigs: Sod

# MUSTANG

## THE TALL FESCUE THAT LOOKS LIKE BLUEGRASS

KENTUCKY BLUEGRASS

MUSTANG TURF-TYPE TALL FESCUE

### BLUEGRASS QUALITIES WITH TALL FESCUE PRACTICALITY

You'll quickly notice Mustang's finer texture, rich dark green color and dense, uniform turf—and you'll understand why we say Mustang has bluegrass-like qualities.

But there's more to Mustang turf-type tall fescue than beauty; it's tough and durable. It's heat and drought tolerance, winter hardiness, and ability to endure low mowing heights are remarkable. Mustang even shows improved resistance to *Helminthosporium* net blotch and many other diseases.

Best of all, Mustang is practical, because it performs extremely well under low maintenance conditions like minimum fertilization, watering and mowing. National tests and actual applications in parks, golf courses and playing fields have proven it.



BLUEGRASS/RYEGRASS MIX MUSTANG  
DROUGHT TOLERANCE AFTER SEVEN WEEKS NO RAINFALL.



KENTUCKY BLUEGRASS



K-31 TALL FESCUE

That's why Mustang is becoming the favorite choice of professional turf managers, over K-31 and many other commercially available varieties.

For bluegrass qualities and tall fescue practicality, use the professional's choice—Mustang turf-type tall fescue.

Pickseed also produces



and



and other fine turf grasses available nationwide from quality seed suppliers.

Produced by:



P.O. Box 888 • Tangent, Oregon 97389  
(503) 926-8886

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## Seed Companies

continued

Bamert Seed Co  
Rte 3 Box 1120  
Muleshoe TX 79347  
806-272-5506  
800-262-9892  
Other: native grasses

E F Burlingham & Sons  
PO Box 217  
Forest Grove OR 97116  
503-357-2141  
Fescues: (Tall) Falcon

Cenex/Land O Lakes Ag Services  
2882 Howell Prairie Rd NE  
Salem OR 97305  
503-585-7033

Perennial Ryegrasses: Titlist; Fescues:  
Bonanza Turf-type (Tall); Turfseed Mixes  
or Blends: Magnum Brand Perennial  
Ryegrass; Other: various public and  
proprietary varieties available in straight  
or mixed forms

Fine Lawn Research Inc  
PO Box 290  
Madison GA 30650  
503-636-2600

Kentucky Bluegrasses: Chateau; Perennial  
Ryegrasses: Pennant; Fescues: Finelawn  
& Jaguar Turf Type Tall; Turfseed Mixes  
or Blends: Triple Play Perennial Rye  
Blend

Garfield Williamson Inc  
Proform Turf Products Div  
9 Stewart Pl  
Fairfield NJ 07006  
201-882-7755  
800-435-5296

Kentucky Bluegrasses: Liberty, Eclipse,  
Midnight, Classic; Perennial Ryegrasses:  
Omega II, Saturn, Genesis, Pinnacle;  
Fescues: (Tall) Jaguar, Jaguar II,  
Emperor, (Hard) Pioneer, (Creeping)  
Lotus, Ensylva Turfseed Mixes or  
Blends: Proform Triple Classic Turf Rye  
Blend (Omega II, Manh. II, Citation II)  
Proform super Sport Turf (Jaguar,  
Bonanza TTF; Omega II PR; Liberty KB)  
Proform Deep Shade Other: Proform  
Wildflower Mixture, Proform Native &  
Reclamation Grass Mixtures, Proform  
sod Bluegrasses Mixtures.

Great Western Seed Co  
810 Jackson St  
Albany OR 97321  
503-928-3100

Kentucky Bluegrasses: Barblue, Baron,  
Georgetown, Majestic, Mystic, Nassau,  
Princeton (P104), Ram I, 1757; Perennial  
Ryegrasses: Cowboy, Diplomat, Palmer,  
Prelude, Repell, Yorktown II; Fescues:  
Clemfina Tall, Jamestown Chewings,  
Rebel Tall, Rebel II Tall, Reptans  
Creeper, Tribute Tall, Wilma Chewings;  
Bentgrasses: Astoria, Highland,  
Penncross, Penneagle, Pennlinks;  
Turfseed Mixes or Blends: All of the  
above; Other: Agree Intermediate  
Ryegrass

Jonathan Green & Sons Inc  
Squankum-Yellowbrook Rd  
PO Box 326  
Farmingdale NJ 07727  
201-938-7007

Kentucky Bluegrasses: Jonathan Green's  
Destiny, Gnome Perennial Ryegrasses:  
Jonathan Green's Sherwood, Allaire  
Fescues: Jonathan Green's Mesa,  
Richmond Turfseed Mixes or Blends:  
Touch-up Ryegrass Blend, Showlawn,  
Blue-Rye, Sodmaker, Full Sun, Dense  
Shade, Sun & Shade, Drought Tough,  
Fun Lawn, Heavy Traffic, Fast Grow,  
Contractors Mix, Pasture Mix, Veri-  
Green, Wildflower Other: Birdsfoot  
Trefoil, Blackwells Switchgrass, Clovers,  
Penngift Crown Vetch, Deertongue,  
Orchardgrass, Poa Trivialis, Redtop,  
Reed Canarygrass, Sericea Lespedeza,  
Timothy, Weeping Lovegrass, Winter  
Rye, Wildflowers

★ International Seeds Inc

820 First St  
PO Box 168  
Halsey OR 97348  
503-369-2251  
TWX: 910-240-5575

Kentucky Bluegrasses: Ikone Fescues:  
Houndog & Pace Tall; Fine fescues:  
Enjoy & Longfellow Chewings, Ensylva &  
Cindy Creeping Bentgrasses: Emerald,  
Cobra Rough Bluegrass: Sabre Turfseed  
Mixes or Blends: PhD & PhD & Sabre,  
Dixie Green, Dixie Green with Sabre,

★ Jacklin Seed Co

W 5300 Jacklin Ave  
Post Falls ID 83854  
208-773-7581

Kentucky Bluegrasses: Glade, Fylking,  
Wabash, Eclipse, Nassau, Nugget, Ram  
I, Huntsville, Merion, Amazon, Adelphi;  
Perennial Ryegrasses: All\*Star; Fescues:  
Arid Turf-Type Tall, Safe Endophyte  
Free Tall, Wrangler Turf-Type Tall  
Bentgrasses: Putter Creeping; Turfseed  
Mixes or Blends: Four Star Sod Blend;  
Other: Streaker Redtop, Reubens  
Canada Bluegrass

LESCO Inc  
20005 Lake Rd  
Rocky River OH 44116  
216-333-9250  
800-321-5325  
800-686-7413(OH)

Kentucky Bluegrasses: Adelphi, A-34,  
Baron, Challenger, Cheri, Columbia,  
Dawn, Eclipse, Fylking, Glade, Gnome,  
Julia, Common Kentucky, Merion, Merit,  
Midnight, Park, Plush, Ram I, Sydsport,  
Touchdown, Vantage; Perennial  
Ryegrasses: Birdie II, Citation II, Derby,  
Linn, Manhattan, Manhattan II, Omega  
II, Pennant, Pennfine, Regal, Regency,  
Vintage 2DF; Fescues: Chewing-  
Jamestown, Shadow; Creeping-Ensylva,  
Flyer, Fortress, Pennlawn; Hard-Aurora,  
Waldina; Sheep-Bighorn; Dwarf-  
Trailblazer; Tall-Apache, Bonanza,  
Cimarron, Falcon, Kentucky 31, Olympic;  
Bentgrasses: Colonial-Astoria, Highland;  
Creeping-Emerald, Penncross,

Penneagle, Pennway Blend, Seaside;  
Turf Seed Mixes or Blends: LESCO:  
Classic Turf (KY Bluegrasses, Perennial  
Ryegrass & Chewings), Quality Blue (KY  
Bluegrasses), Double Eagle-CBS II  
(Perennial Ryegrasses), Eagle (Turf-Type  
Perennial Ryegrasses), Premium (KY  
Bluegrasses, Perennial Ryegrasses),  
Park & Athletic Mix (Kentucky Bluegrass,  
Creeping Red Fescue, Turf-Type  
Perennial Ryegrass), Shade Mix (Chewing  
& Creeping Fescues, Perennial  
Ryegrass, Hard Fescue, KY Bluegrass),  
Transition (Turf-Type Tall Fescues), Turf-  
Turf (Turf-Type Tall Fescues & KY  
Bluegrass), Citation II + Pennfine  
(Perennial Ryegrasses), CBS II +  
Shadow (Double Eagle & Fescue), CBS II  
& Sabre (Double Eagle & Sabre Poa  
trivialis), Par Blend (Turf-Type Perennial  
Ryegrasses), 3CN Intermediate Ryegrass  
(Annual & Perennial Ryegrasses)

★ Lofts Seed Inc

Chimney Rock Rd  
PO Box 146  
Bound Brook NJ 08805  
201-560-1590

Kentucky Bluegrasses: Baron, Nassau,  
Ram I, Georgetown, Mystic; Perennial  
Ryegrasses: Palmer, Prelude, Cowboy,  
Yorktown II, Repell, Diplomat; Fescues:  
Jamestown Chewings, Rebel, Reliant  
Hard, Rebel II, Tribute Tall; Turfseed  
Mixes or Blends: Marvelgreen  
overseeding blends; Other: Laser Poa  
trivialis

★ Northrup King

Medalist Turf Products Div  
PO Box 959  
Minneapolis MN 55440  
612-593-7333

Kentucky Bluegrasses: Adelphi, Aspen,  
Aquila, Parade, Rugby, Trenton;  
Perennial Ryegrasses: Caddie, Delray,  
Goalie, NK200, Pennfine; Fescues: Arid  
tall, Dawson red, Ruby creeping red,  
Scaldis hard, Galway tall; Bentgrasses:  
Highland, Penncross, Penneagle,  
Seaside; Turfseed Mixes or Blends:  
Athletic Pro, Athletic Pro II, Overseeder  
II, Overseeder III, Renovator Pro, Special  
Park, Premier Turf, Swift & Sure,  
Premium Sod, Shady Turf, Medalist  
North, Landscape Pro, Boulevard Mix,  
Super Pro III, General Turf, General Turf  
III, Landscape Pro West, Alkali Turf Mix,  
Triple Pro, Medalist 7, Medalist 6,  
Medalist 5, Medalist 7+Sabre, Accent,  
Medalist 300, Medalist 400, Medalist  
400+Sabre, Medalist 60/40; Other: Fulps  
Puccinellia distans

Oregon Fine Fescue Commission  
866 Lancaster Dr SE  
Salem OR 97301  
503-585-1157  
Fescue: creeping and chewings

Oregon Ryegrass Growers Seed  
Commission  
4093 12th St SE  
Salem OR 97302  
503-364-3346



# If it's not **Certified Manhattan II**, it's not 'such a deal' after all.

Some dealers are offering you a deal to take something they call Manhattan off their hands

## THE REAL BAG



Manhattan Ryegrass Growers Association has the exclusive contract to produce Manhattan and Manhattan II perennial Ryegrasses. These select seed growers have not produced the old Manhattan strain for years, so much of what is being produced as Manhattan is probably not true Manhattan.

The improved *certified* Manhattan II, co-developed by Dr. Bill Meyer at Pure Seed Testing and Dr. C. Reed Funk has significant improvements over the old Manhattan ... like rust and disease resistance, darker green color and better plant density.

So what is their stuff? We *know* it bypasses seed certification and royalty programs. And, because it's not certified, we have no way of knowing just what's in the bag.

And neither do you.

Qualified turf associations can earn cash for turf research by saving Manhattan II blue tags. Contact your dealer for details.



PVP 8200154. Unauthorized propagation prohibited.

# Manhattan II

TURF-TYPE PERENNIAL RYEGRASS ONLY FROM

## Turf Merchants, Inc.

33390 Tangent Loop Road  
Tangent, OR 97389  
800-421-1735 FAX 503-926-4435  
(503) 926-8649 TWX 910-997-0773

## Turf-Seed, Inc.

P.O. Box 250 • Hubbard, OR 97032  
800-247-6910 FAX 503-981-5626  
503/981-9571 TWX 510-590-0957

## Seed Companies

continued

Perennial Ryegrasses: all Oregon  
Ryegrasses; Other: Annual Ryegrasses

★ Oregon Tall Fescue Commission  
866 Lancaster Dr SE  
Salem OR 97301  
503-585-1157

OSECO Inc  
210 Wanless Dr  
Brampton ON Canada  
L6V 2L2  
416-846-5080

Kentucky Bluegrasses: Baron, Gnome,  
Haga, Majestic, Midnight, Nassau,  
Sydsport Reubens Canada; Perennial  
Ryegrasses: Barry, Yorktown II, Palmer,  
Gator; Fescues: Biljart hard, Fortress  
creeping red, Highlight, Koket & Wilma  
chewings, Rebel & Rebel II tall;  
Bentgrasses: Emerald, Penncross,  
Penneagle; Turfseed Mixes or Blends:  
Custom mixed from aforementioned  
species

Pennfine Perennial Ryegrass  
PO Box 959  
Minneapolis MN 55440  
612-593-7333  
Perennial Ryegrasses: Pennfine

Peterson Seed Co  
PO Box 346  
Savage MN 55378  
612-445-2606  
Kentucky Bluegrasses: Monopoly, Classic  
& Eclipse

Otto Pick & Sons Seeds Ltd  
11151 Yonge St  
Box 126  
Richmond Hill ON Canada  
L4C 4X9  
416-884-1147

Kentucky Bluegrasses: America, Banff,  
Nugget, Touchdown; Perennial  
Ryegrasses: Blazer, Fiesta; Fescues:  
Agram, Mustang, Tournament hard;  
Bentgrasses: Exeter

★ Pickseed West Inc  
PO Box 888  
Tangent OR 97389  
503-926-8886

Kentucky Bluegrasses: America,  
Touchdown, Banff, Bronco; Perennial  
Ryegrasses: Fiesta, Fiesta II, Blazer,  
Blazer II, Dasher, Dasher II, Jazz;  
Fescues: Tall-Mustang, Maverick,  
Thoroughbred; Chewings-Agram,  
Victory; Hard-Spartan, Tournament;  
Sheep-Azay; Bentgrasses: Exeter  
colonial, Kingstown velvet, National  
creeping, Penncross, Penneagle,  
Pennlinks creeping; Turfseed Mixes or  
Blends: Futura 2000, Fiesta II, Dasher II,  
Blazer II, Futura Plus (Fiesta, Dasher,  
Blazer), Team (Mustang, Maverick,  
Thoroughbred); Other: Colt poa trivialis,  
Flowers 'n' Flowers wild flower mix,  
Flowers 'n' Grass mix

★ O M Scott & Sons Co  
14111 Scottslawn Rd  
Marysville OH 43041

513-644-0011 (OH call collect)  
800-543-0006

Kentucky Bluegrasses: Victa, Bristol,  
Abbey, Coventry; Perennial Ryegrasses:  
Loretta Ovation, Caravelle; Fescues:  
Banner Bentgrasses: Penncross,  
Penneagle, Pennlinks, Pennway;  
Turfseed Mixes or Blends: Sportsturf  
(Loretta/Pennant Perennial Ryegrass,  
Abbey/Victa Bluegrass); Other Turf  
Seed: Winter Turf overseeding line (4  
different Perennial Ryegrass blends)

Seaboard Seed Co  
PO Box 117  
Bristol IL 60512  
312-553-5800

Kentucky Bluegrasses: Midnight, Classic,  
Eclipse, Glad, Haga, Adelphi, Baron,  
Merit, Gnome, Monopoly, Parade,  
Touchdown, Nassau, Banff, Newport,  
Julia, Chateau, America, A-34, Park,  
Rami, Nugget; Perennial Ryegrasses:  
Palmer, Prelude, Manhattan II, Pennant,  
Derby, Fiesta II, Pennfine, Manhattan II,  
Citation, Jazz, Rodeo, Patriot, Omega II;  
Fescues: Fine-spartan, Saldis, Victory,  
Jamestown, Koket, Pennlawn, Tall-arid,  
Olympic, Apache, Adventure, Mustang,  
Falcon, Brookston, K 31; Bentgrasses:  
Penncross, Penneagle, Seaside,  
Highland, Exeter, Red top; Turfseed  
Mixes or Blends: Custom mixes; Other:  
Crown Vetch, Birdsfoot Trefoil, Native  
Grasses, Wildflowers, Poa Trivialis,  
Canada bluegrass, Fults, Reed Canary

Seed Research of Oregon Inc  
644 SW 13 St  
Corvallis OR 97333  
503-757-2663  
800-253-5766

Kentucky Bluegrasses: Enmundi, Merit,  
Harmony; Perennial Ryegrasses:  
SR4000, SR4100; Fescues: Tall-Trident  
& SR8000, Hard-SR3000, Chewings-  
SR5000; Bentgrasses: SR1020, SR1019  
Creeping; Turfseed Mixes or Blends:  
Champion (Perennial Ryegrass Blend),  
Trophy & Survivor (Tall Fescue Blends),  
Crusade (Fine Fescue Blend), Dominant  
(Bentgrass Blend)

Southern Turf Nurseries  
5172 A Indian Trail Ind Pkwy  
Norcross GA 30071  
404-448-9932  
Sod/Sprigs (South Only): Tifway 419,  
Tifgreen 328, Tifwarf, Centipede, Midiron

Sunbelt Seeds Inc  
5172 Indian Trail Ind Pkwy Ste A  
Norcross GA 30071  
404-448-9932  
Kentucky Bluegrasses: Baron, Nassau,  
Georgetown, Ram I; Perennial  
Ryegrasses: Palmer, Prelude, Cowboy;  
Fescues: Jamestown Chewings;  
Turfseed Mixes or Blends: Marvel Green,  
Supreme (Over Seeding Blend)

★ Tee-2-Green Corp  
3017 W G St  
Hubbard OR 97032  
503-981-9574

Bentgrasses: Penncross, Penneagle,  
Pennlinks, Pennway

★ Turf Merchants Inc (TMI)  
PO Box 1467  
Albany OR 97321  
503-491-3622  
800-421-1735

Kentucky Bluegrasses: Gnome, Tendos,  
True Blue, Lexington, Rugby; Perennial  
Ryegrasses: Pennfine, Manhattan II,  
Rodeo, Patriot; Fescues: Tall-Wrangler,  
Turfgem, Brookston; Bentgrasses: VIP  
Cr. Blend; Turfseed Mixes or Blends: VIP  
Overseeding Blend (Pennfine, Manhattan  
II, Patriot)

Turf Merchants International  
33390 Tangent Loop  
Tangent OR 97389  
503-926-8649

Kentucky Bluegrasses: Gnome, Tendos,  
Topfit, Topstar, Trublu, Lexington,  
Twilight; Perennial Ryegrasses:  
Aquarius, Patriot, Pennfine, Manhattan  
II, Rodeo, Allaire, Barry; Fescues: (Tall)  
Wrangler, Brookston, Laredo, Bonsai,  
Turfmates, Turfgem II & Estacda  
chewings, Virtus creeping; Bentgrasses:  
VIP creeping, Penncross, Penneagle,  
Pennlinks

★ Turf Seed Inc  
PO Box 250  
Hubbard OR 97032  
503-981-9571

Kentucky Bluegrasses: Midnight,  
Columbia, Challenger, Voyager  
Perennial Ryegrasses: Manhattan II,  
Citation II, Birdie II, 246 Fescues:  
Apache, Olympic, El Dorado,  
Triathalawn, Silverado Tall, Shadow  
Chewings, Aurora Hard, Fortress  
creeping, Shademaster creeping  
Bentgrasses: Pencross, Penneagle,  
Pennlinks, Pennway

Van Der Have Oregon Inc  
33725 Columbus St SE  
PO Box 1496  
Albany OR 97321  
503-967-8923

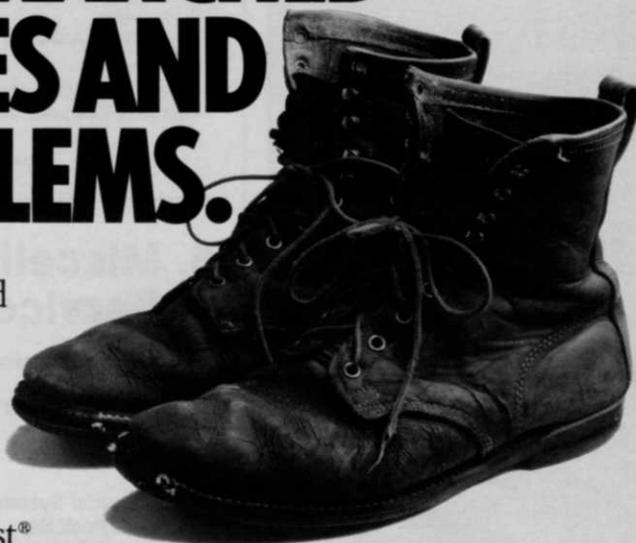
Kentucky Bluegrasses: Sophia, Minstral,  
Cynthia; Perennial Ryegrasses: Ranger,  
Brenda, Nova, Mondial, Sheriff,  
Pennfine, Patriot, Rodeo Fescues:  
(Chewings)Waldorf, Atlanta, Scarlet,  
Epsom Hard) Biljart, Scaldis, Silvana  
(Creep) Dawson, Ruby (Creeping)  
Carmen (Colonial) Tracenta; Turfseed  
Mixes or Blends: Quartet-4 way blend of  
fine leaf perennial ryegrass Mondial,  
Brenda, Patriot, Pennfine

Vaughan Seed Co  
5300 Katrine Ave  
Downers Grove IL 60515  
312-969-6300

Kentucky Bluegrasses: Adelphi; Perennial  
Ryegrasses: All Star, Citation

Vaughan Seed Co  
Chimney Rock Rd  
Bound Brook NJ 08805  
201-356-4200

# BEFORE WE DEVELOPED THESE PROBLEM-SOLVING TURFGRASS MIXTURES, WE MARCHED THROUGH ACRES AND ACRES OF PROBLEMS.



Nobody knows the troubles we've seen. Our Northrup King turf specialists and researchers have hoofed through salt problems, soil compaction, disease, starved turf, baked turf, cleated-to-shreds turf, and dormant winter turf—all depressing sights. But it was a road well worth our travels.

The result is a complete line of Medalist® turfgrass formulas that meet the demands of the professional turf manager.

If you've been staring down at a turf problem, look up your solution here. And if you think it's a turf problem we haven't seen, just let us know.

Our business is putting your problems behind us.



MEDALIST TURF PRODUCT	MAJOR AREAS OF USE	SPECIAL FEATURES
Athletic Pro and Athletic Pro II	For athletic turf.	Well suited for new seeding or overseeding. Fast establishing, traffic tolerant, rapid recovery. Both provide good footing.
Boulevard Mix	Any area with high pH (roadsides, sidewalks, boulevards, alkaline soils, etc.).	Contains 'Fults' and Dawson red fescue for beautiful salt-tolerant turf. Performs at low to high fertility levels.
Landscape Pro Mix	School grounds, cemeteries, golf course roughs, home lawns.	Establishes fast. Adapts to broad range of conditions and management levels. Low to moderate fertility needs.
Overseeder II Mix	Fairways, tees, athletic fields.	Rapid germination and establishment. Withstands heavy traffic and resists diseases. Penetrates compacted soils.
Medalist North Mix	Fairways, tees, cart paths, wear areas.	Quality turf for high traffic areas. Clean mowing and disease resistant.
Premium Sod Blend	Commercial sod production.	Exceptional dark green color. Tolerates light shade. Superior disease resistance. Rapid sod producer.
Renovator Pro Mix	Problem solver for heavy traffic areas (athletic fields, golf tees, and fairways).	Penetrates compacted soils and combats <i>Poa annua</i> . Adaptable to most geographic regions.
Medalist Brand Overseeding Products	Winter overseeding of dormant bermudagrass.	Establishes rapidly and evenly. Tolerates traffic while providing a superior putting surface. Smooth spring transition.

Ask your Northrup King distributor about Medalist Turf Products to solve your turf problems. Or write Northrup King Medalist Turf Products, P.O. Box 959, Minneapolis, MN 55440.

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THE MORIE COMPANY, INC.

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Junction City, GA 31812  
404/269-3294

Tuscaloosa, AL 35401  
205/758-8353

Camden, TN 38320  
901/584-8201



Circle No. 149 on Reader Inquiry Card

**Seed Companies**

*continued*

Kentucky Bluegrasses: Adelphi, Glade,  
Cheri, Merit, Touchdown; Perennial  
Ryegrasses: All Star, Pennant, Citation,  
Regal

★ Warren's Turf Nursery Inc  
Cordelia & Chadbourne Rds  
PO Box 459  
Suisun City CA 94585  
707-422-5100

Kentucky Bluegrasses: Warren's A-34  
BenSun; Fescues: Adventure Turf Type  
Tall

★ Morie Co  
1201 N High St  
Millville NJ 08332  
800-257-7034  
609-327-4500  
Sands, clays and specialty mixes

Opti-Gro Div Mantek  
PO Box 2170  
Irving TX 75061  
800-241-3302  
404-952-0228(GA)  
Grounds care technology

ServiceMaster LawnCare  
2300 Warrenville Rd  
Downers Grove IL 60515  
312-964-1300  
Lawn care franchises

Telmark Inc  
Box 4943  
Syracuse NY 13221  
Agri-lease

Velotta Uniform Sales Inc  
12429 Cedar Rd  
Cleveland OH 44106  
216-791-5050  
800-544-2737, Hear Tone, Dial 38  
Work uniforms, caps, jackets,  
monogramming, computerized logo  
embroidery

**6. Miscellaneous  
Services**

Agri-Diagnostics Assocs  
2611 Branch Pike  
Cinnaminson NJ 08077  
609-829-0110  
Diagnostic services

Akzo Industrial Systems Co  
One North Pack Sq  
Asheville NC 28802  
704-258-5050  
Subsurface drainage matting, natural turf  
and soil reinforcement matting

★ Bush and Cook Leasing Inc  
1600 W Main St  
Wilmington OH 45177  
513-382-5502(OH)  
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Calabasas CA 91302  
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Wilmington, OH 45177

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Circle No. 108 on Reader Inquiry Card





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necessary  
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United States

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## **Business Reply Mail**

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Postage will be paid by:



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Norwalk, CT 06854**

# TRUCK ON DOWN

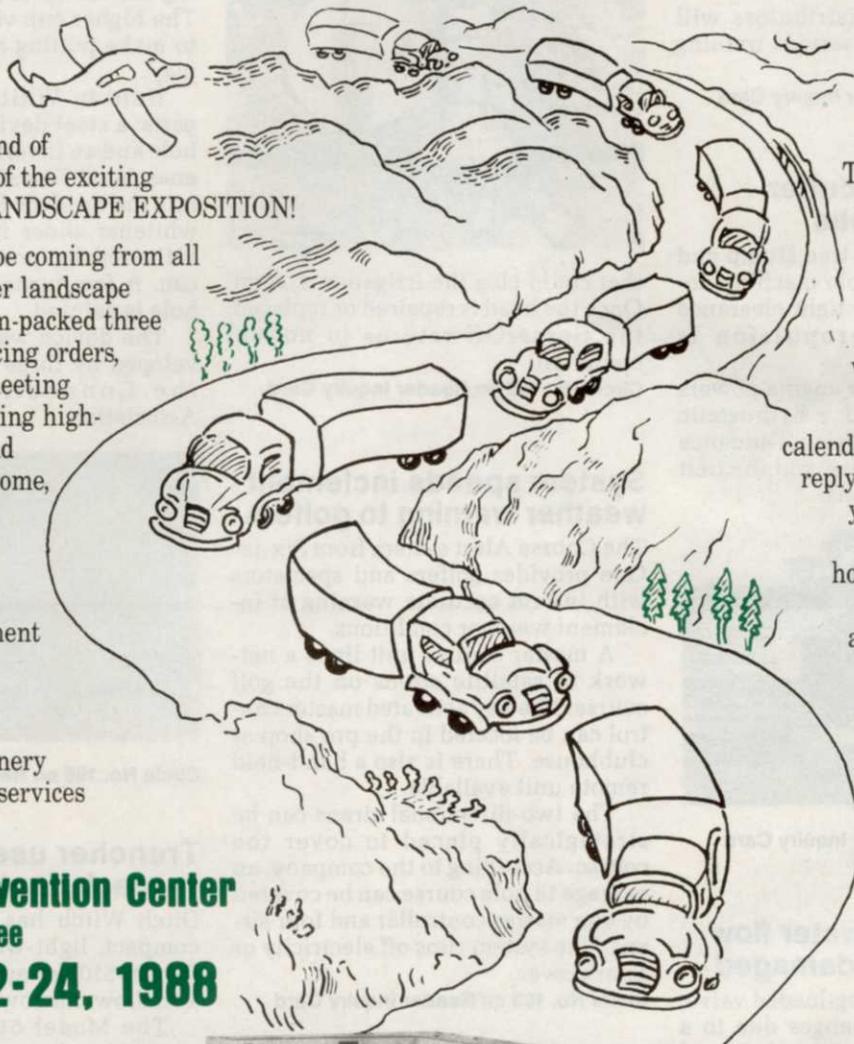
To Nashville, heartland of the country and site of the exciting **THIRD ANNUAL LANDSCAPE EXPOSITION!**

Your colleagues will be coming from all directions to join other landscape professionals for a jam-packed three days of shopping, placing orders, testing equipment, meeting new suppliers, attending high-powered seminars, and sharing some down-home, foot-stompin' fun.

Among the exhibits will be:

- Power equipment
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Circle No. 139 on Reader Inquiry Card

SEPTEMBER 1988/LANDSCAPE MANAGEMENT 99

# PRODUCTS

## New engine installed in mid-size mowers

Bunton's mid-sized commercial mowers will feature a new engine manufactured by Onan, Bunton announced at the Lawn & Garden Expo 88.

The 12.5 hp engine has an overhead valve design and includes electronic ignition, pressurized lubrication and cast iron cylinders, among other things. The engine is available on Bunton's 32-, 48-, 52- and 61-inch mowers.

Bunton and its distributors will carry parts and offer service training for stocking dealers.

Circle No. 190 on Reader Inquiry Card

## Portable stump cutter fits into tight areas

Rayco's RG 1620 (JR) tree stump and root cutter is a portable machine designed for areas with tight clearance and where self-propulsion is advantageous.

A 20 hp Kohler gas engine powers the cutting unit, and a hydrostatic motor provides propulsion. Guidance requires no handle bars, and the unit weighs only 630 pounds.



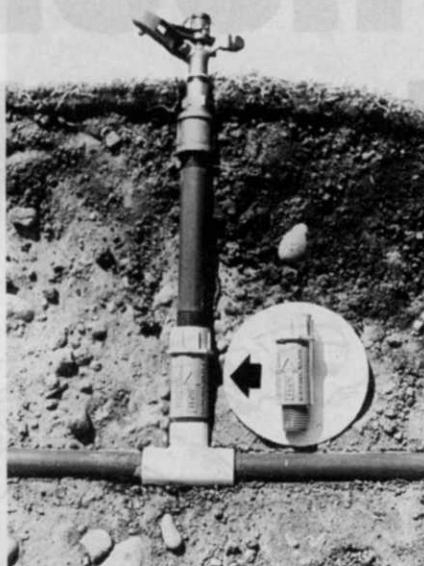
Circle No. 191 on Reader Inquiry Card

## Valve shuts off water flow if spray head is damaged

The GeyserOff, a spring-loaded valve, senses water flow changes due to a broken sprinkler head or riser and shuts off flow to the head within seconds.

The valve attaches to each riser or sprinkler head below ground where the main supply lines are. The valve will shut off flow to the damaged head but allows flow to the rest of the system.

On automatic systems, when water comes back on, the GeyserOff, manufactured by Oases Industry, briefly releases water and shuts off again, a reminder that it still needs repairing. This will also flush out sand and dirt



that could clog the irrigation system. Once the head is repaired or replaced, the GeyserOff returns to normal operation.

Circle No. 192 on Reader Inquiry Card

## System speeds inclement weather warning to golfers

The Course Alert system from Six-in-One provides golfers and spectators with instant accurate warning of inclement weather conditions.

A master control unit links a network of satellite sirens on the golf course. The key activated master control can be located in the pro shop or clubhouse. There is also a hand-held remote unit available.

The two-directional sirens can be strategically placed to cover the course. According to the company, an average 18 hole course can be covered by one master controller and four sirens. The system runs off electricity or solar power.

Circle No. 193 on Reader Inquiry Card

## Moisture sensor saves 50 percent of water

The Moisture Stat can yield irrigation systems more than 50 percent in water savings, according to its manufacturer, Griswold Controls.

Moisture Stat is an electronic moisture sensing system that consists of a control panel and four sets of maintenance-free probes. Up to six stations can be assigned to each of the probe sets. When the controller begins, the Moisture Stat measures the

moisture across each set of probes and compares it to the desired pre-set moisture. If the signal indicates that moisture is above the setting, watering does not occur.

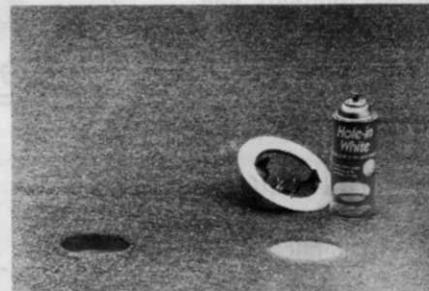
Circle No. 194 on Reader Inquiry Card

## Device assists coloring of putting green holes

The Hole-in-White putting hole painter aids superintendents in painting the inside of putting green holes. The higher cup visibility is supposed to make putting easier and speed up play.

Hole-in-White consists of two parts: a steel device that fits over the hole and an inverted can of turf-whitener paint. The steel piece fits snugly into the lip of the freshly cut hole. The whitener slides into position and is activated by pressing down on the can. A few turns of the can and the hole is painted.

The device was invented and developed by three active members of the Connecticut State Golf Association.



Circle No. 195 on Reader Inquiry Card

## Trencher uses eight teeth to reach depth of 10 inches

Ditch Witch has introduced a new compact, light-weight disk trencher (Model 510) for applications requiring a shallow, narrow trench.

The Model 510 is a 4.6 hp machine that has a simplified design with few moving parts. Eight digging teeth bolt on and off the 22-inch steel wheel disk for quick, easy changes. It can dig to depths of 10 inches at 2-inch widths.

The machine's narrow width of 31 1/4 inches is helpful in getting it into hard-to-access work areas. It can dig trenches for installation of service cable or sprinkler pipe, landscaping edging and other applications requiring a shallow, narrow trench.

The 200-pound trencher features an integral slip clutch to protect the



Model PAL  
Aerial Lift/Trailer (top)

Model 400  
Log & Brush Chipper (center)

Model R-18  
Stump & Root Grinder (bottom)



Full vision cutting. 22" wide.  
Hydrostatic drive.



6" capacity. Hydraulic tilt dump.  
8½ cubic yards.



6" capacity. 360° discharge.  
Self feeding.



Self-propelled. Positive clutch.  
Cuts 20" deep.



Working heights to 40 ft.  
Removable in 5 minutes.



12" capacity. 360° feed rotation.

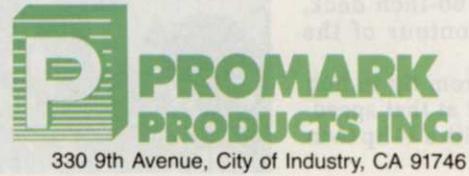
# PROMARK.

## Everything for tree-related grounds maintenance.

For aerial lifts that reach up to 40 feet for tree and utility service work, to rugged stump grinders that eliminate roots down to 20" below ground, Promark provides landscapers, arborists and grounds maintenance professionals with a complete family of equipment.

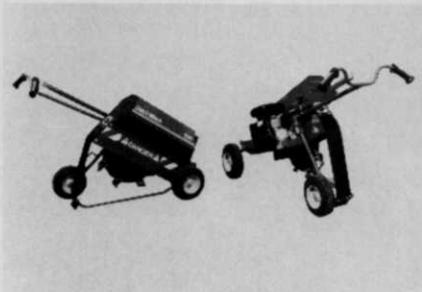
Making up the strong center of the line are Promark's brush chippers and log splitters, in a range of sturdy models that make finishing a job easy and profitable.

Call  
**(818) 961-9783**  
FAX (818) 961-2307



330 9th Avenue, City of Industry, CA 91746

engine against shocks. An operator-presence control system requires that one hand remain in contact with a handlebar control during operation or the machine automatically shuts off.



Circle No. 196 on Reader Inquiry Card

### Tool monitors compaction

The Penetrometer from Turf-Tec measures soil compaction in all turf areas and construction sites. The easy-to-use, quick release device is made of all-weather chrome.

It operates with the help of gravity and is calibrated from zero to 100 per-



cent compaction. The Penetrometer works on golf courses, athletic fields, playgrounds, new construction areas and other turf areas.

Circle No. 197 on Reader Inquiry Card

### High speed mower cuts 3.5 acres an hour

The 724-Z commercial mower from Wheel Horse Products mows at 6.5 mph and covers 3.5 acres per hour, according to the company.

The speed is possible because of soft, low pressure tires. The tires act as a suspension system and also as gauge wheels for its 60-inch deck, which follows the contour of the turf.

Blades sharpened from tip to hub ensure a no-streak cut at that speed. The unit is equipped with a 24 hp twin cylinder Onan engine.



Circle No. 198 on Reader Inquiry Card

### Vibrating blades help reduce soil compaction

The Vibra Master from Green Care International is a disc and blade aeration system. Five free rolling discs slice the turf for a clean cut. Five vertical, vibrating blades follow the discs, creating aeration drainage channels while loosening soil to depths of eight inches.

PTO driven eccentric cams provide the vibration action by oscillating the blades backward and forward in a small arc.

The sizes of the three blades range from five to nine inches long. The unit, which is pulled by a tractor, uses either two or three blades spaced at two feet or five blades spaced at one foot.

Circle No. 199 on Reader Inquiry Card

### Sign system provides plant information

The Sig-Num Signage System from Metalphoto features a 3 1/2- by 5-inch anodized aluminum sign that holds a maximum of eight lines with 25 characters each.

The durable outdoor signs have a



life expectancy of 20 years each. A complete installation system is also available.

In conjunction with introducing the new product line, Metalphoto is offering a free sample. Send the company a design of your sign which meets the above specifications.

Circle No. 200 on Reader Inquiry Card

### Hose bag kit attaches quickly to blowers

A new hose bag kit attaches quickly to Roto-Hoe's line of walk-behind blowers. The eight-foot long hose has a five-inch diameter and is made of heavy-duty clear plastic.

It is reinforced with PVC strips rather than steel wire for minimum wear. The five-foot long bag attaches without the use of tools.



Circle No. 201 on Reader Inquiry Card

### Lawn fertilizer injector calibrates chemicals

A redesigned version of the Chemilizer lawn fertilizing device manufactured by Chemilizer Products, can connect to underground systems, aboveground sprinklers or any type of irrigation system.

The Chemilizer is a small round container with standard hose fittings. It can be moved to different locations. Installation requires no special tools.

Liquid fertilizer is poured into the Chemilizer and is distributed as needed through a calibrated injector. The Chemilizer is available in two- and four-gallon sizes. The system needs replenishing with liquid only occasionally since the average lawn needs about one gallon of liquid fertilizer per 3,000 sq. ft. each month, according to the company.

In underground systems, chemicals are injected downstream of the water pump to avoid corrosion. The Chemilizer can be bypassed as needed.

Circle No. 202 on Reader Inquiry Card

# Sabre *Poa trivialis* isn't just a good shade grass.

## It's the best.



Years ago fine fescue was considered the best performer in damp shade.

That changed with the appearance of *Poa annua*-free Sabre *Poa trivialis* and a 1979 shade tolerance trial at Ohio State University.

In that test Sabre was top-rated for shade tolerance when compared to 39 mixtures, blends and monostands of fine fescue, ryegrass, Kentucky bluegrass and tall fescue.

An excerpt from trial data said: "Sabre, which had the highest overall seasonal ratings, maintained the most consistent quality throughout the season."

Due to its special qualities Sabre should be sown only in damp shade. For this purpose it may be mixed with fine fescue, turf-type ryegrass or Kentucky bluegrass.

Normal cutting height is 1-1/2 inches, but on winter putting greens in the Southern U.S., it has proven its ability to thrive when cut at 3/16th.

One of the first domestic varieties to be registered with the U.S. Plant Variety Protection Office, Sabre is both disease-resistant and hardy.

 **INTERNATIONAL SEEDS, INC.**

P.O. Box 168 - 820 First Street • Halsey, Oregon 97348 • Telephone: 503-369-2251 • TELEX 910-240-5575

Circle No. 129 on Reader Inquiry Card

SEPTEMBER 1988/LANDSCAPE MANAGEMENT 103

# CLASSIFIEDS

**RATES:** \$1.10 per word (minimum charge, \$25). Bold face words or words in all capital letters charged at \$1.35 per word. Boxed or display ads: \$90 per column inch-1x (one inch minimum); \$85-3x; \$80-6x; \$75-9x; \$70-12x. Agency commissions will be given only when camera-ready art is provided by agency. For ads using blind box number, add \$10 to total cost of ad. Send ad copy with payment to Dawn Nilsen, LANDSCAPE MANAGEMENT, 1 East First Street, Duluth, MN 55802 or call 218-723-9200.

**BOX NUMBER REPLIES:** Mail box number replies to: LANDSCAPE MANAGEMENT, Classified Ad Department, 1 East First St., Duluth, MN 55802. Please include box number in address.

## HELP WANTED

**GROW WITH TURF:** Career opportunities are available for professionals with experience in lawn care, landscaping and irrigation. We're looking for aggressive self-starters to join our organization. Thrive on the challenge of our growth. Enjoy above average earnings and excellent benefits. Send resume and salary requirements to Turf, P.O. Box 433, Moorestown, NJ 08057 or call (609) 778-0780. 11/88

## MANAGEMENT

Due to our aggressive expansion program in the midwest, east coast and southwestern regions, we are needing management personnel for all phases of our tree & shrub and lawn care services, in both residential and commercial operations. If you are "Results-Oriented" with a strong desire to achieve and high personal goals, send resume including salary history to:

Corporate Recruiter  
Ever-Green Lawns Corp.  
1390 Charlestown Ind. Dr.  
St. Charles, MO 63303

**IRRIGATION SUPERVISOR.** ("INC 500 company") Experienced, aggressive, sales supervisor to manage lawn sprinkler system department including sales, installation and service. Challenging growth opportunity with good salary, benefits, and company vehicle. Send resume: Attn: Monty Mitchell, Suburban Landscape Associates, P.O. Box 2342, Davenport, IA 52809. 9/88

Tree care person — experienced in Horticulture or Arboriculture. Will train tree climbing and/or spray applicator. Salary & benefits commensurate with ability and experience. Send resume to: Tree Care, Inc., 216 East Main St., Huntington, NY 11743. 9/88

Arborist - Tree climber and spray applicators, experienced or will train forestry or horticultural student. Tremendous growth potential. Tree Care, Inc., 216 East Main Street, Huntington, New York, Area Code: 516-#424-9440 or #424-9441. 9/88

Landscape Architects/Supervisors (project foremen) to join a nationally acclaimed firm looking to expand into its second generation Long Island area supports a high budget landscape industry. Year round employment, company benefits and continuing education available. Experienced and aggressive people send resume to: **GOLDBERG & RODLER, INC.**, 216 East Main Street, Huntington, New York, 11743. 9/88

**NURSERY MANAGER** - Take charge person, strong knowledge of plant material and plant production. Tremendous growth potential. Eastern Long Island. Send resume to: Box 226, Centerport, New York 11721. 10/88

**WANTED - Aggressive Manufacturer's Reps** - Manufacturer of agricultural, golf course, municipal and lawn & garden spraying equipment is seeking qualified reps with experience in sprayer sales. Seeking nationwide network, exclusive territory contract, excellent technical support and top of the line equipment. Send resume and current line card to: The Broyhill Company, P.O. Box 475-CB, Dakota City, NE 68731-0475. Phone: 1-800-228-1003. 9/88

**SALES REPRESENTATIVES** - Landscape maintenance firm that has been established for 30 years in southeast Florida has several openings for over achievers. We are looking for people who can challenge our top sales person who sold over \$1,000,000 in 1987. Applicants should have a background in horticulture, turfgrass management or pest control. 30-50k first year's earnings. Applications for training supervisors, service routes and pest control technicians are also being taken. Call or write Mr. DeMaria at 310 Northwest 16th Terrace, Pompano Beach, FL 33064, 305-971-0110. 10/88

**LANDSCAPE EMPLOYMENT OPPORTUNITIES** - One of the Midwest's largest commercial landscape contracting and maintenance firms seeks motivated, quality individuals to fill the following positions: Landscape Construction Superintendent, Estimator/Contract Administrator, Landscape Materials Buyer, Foremen, Pesticide Applicators. Excellent salary and benefit package. Send resume to: Reinhold Landscape, Inc., 23216 Telegraph, Flat Rock, MI 48134. 9/88

## SENIOR LANDSCAPE ARCHITECT

*The University of California, San Diego is currently in the midst of an aggressive \$500 million building program and is seeking an experienced Landscape Architect.*

*The position reports to the Assistant Vice Chancellor of Physical Plant Services and is responsible for administering the Grounds/Landscape Division. Will represent the department to the community and interact with architects, engineers and contractors. Will act as consultant in the design and plan review of all new and existing campus landscape development and be the advisor and technical specialist for new construction acceptance. Manage all aspects of Grounds Maintenance.*

*Requires landscape architectural license and the ability to attain State of California registration as Landscape Architect within a year. Must have progressive demonstrated experience and skills and knowledge in all aspects of landscape architecture and ornamental and technical horticulture with the skill to manage and administer a major program including budget planning, staffing and operations. Excellent supervisory, administrative, interpersonal and communication skills. Prefer related experience within a College/University Physical Plant.*

*Hiring salary: \$37,300-\$46,600 annually plus excellent benefit package. For full consideration, submit resume and cover letter, referencing Job # 19984-M by September 30, 1988, to: UCSD, Personnel, 501 Matthews Complex, Q-016, La Jolla, CA 92093. AA/EOE.*

**UCSD**  
University of California,  
San Diego

## PROFESSIONALS

Due to our aggressive expansion program in the Southwest & West Coast regions we are hiring experienced landscape maintenance & construction personnel. We are looking for career minded individuals to fill openings for:

Administrators  
Supervisors  
Salespersons  
Foremen  
Irrigators

Positions Available in:

Los Angeles  
Santa Ana  
Palm Springs  
Dallas/Ft. Worth

We offer excellent salary & benefits. Send resume to **LM Box 459**.

**CAREER OPPORTUNITY** - Established growth oriented midwest firm seeks organized dynamic individual to manage landscape contracting division. Must have related degree and solid experience to qualify. Current division responsibilities include sales in excess of \$3,000,000 in staff of 80. Excellent salary, commission plan and full benefit package. Send resume in confidentiality to **LM Box 455**. 9/88

## LANDSCAPE PROFESSIONALS!

If you qualify as one of the best in the industry, **SCAPES, INC.** has openings in its Atlanta and Washington D.C. offices. We are seeking to hire highly trained professionals in all phases of the company—irrigation, maintenance and installation. Higher than industry standard wages. Contact **Scapes, Inc.** for interview at:

404-956-7500

**LANDSCAPE SUPERVISOR.** ("INC 500 company") Talented, experienced, supervisor to manage landscape department including scheduling and training personnel development. Challenging growth opportunity with good salary, benefits and company vehicle. Send resume: Attn: Monty Mitchell, Suburban Landscape Associates, P.O. Box 2342, Davenport, IA 52809. 9/88

## CAREER OPPORTUNITIES

Expanding Sunbelt region firm has several growth-oriented positions available for experienced and knowledgeable individuals. Openings for: landscape sales representatives, landscape maintenance and construction supervisors, foremen, foremen trainees, pesticide applicators and arborists. Horticultural education and/or experience required. We offer professional wages and benefits for career-minded people. Send resume with education, work and salary history to

**LM Box 457**



## Some of life's best lessons are learned in the school of 'soft knocks'

**The young man on the left will fall several times before he hits his first home run. The young man on the right wants him to have the advantage of falling on real turf.**

We think it's curious that the same lawmakers who insist that individuals and corporations make environment and products safer for children neglect to legislate safer standards for school playgrounds.

It's no doubt easier to make us spend our own cash to improve conditions than to appropriate public funds for safe playing areas.

Things are changing ... slowly ... but NSTC has been instrumental in distributing information and

talking to some appropriate people, but it all takes time and money.

While we're waiting for the big picture to change, we can all improve our little corner ... like planting an improved turf plot of our own, then using it! When officials see how much more fun we're having, they'll no doubt want in on the action.

For free brochure and membership application, call or write to Fred V. Grau, Chairman



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# BOOKSTORE



**010 - ADVANCES IN TURFGRASS PATHOLOGY**  
by Joyner and Larsen  
Leading U.S. turf pathologists report on turfgrass diseases, pythium blight, snow molds, fairy rings, leaf spot of Kentucky bluegrass in Minnesota, initial and field fungicide screening, turfgrass disease resistance, etc. Contains new ideas on how to combat turfgrass problems. **\$27.95**

**220 - CONTROLLING TURFGRASS PESTS**  
by Shurtleff, Ferriani, and Randell  
New comprehensive guide provides the most up-to-date information available on the identification, biology, control and management of every type of turfgrass pest. Covers weeds, insects, animal pests and diseases in detail. Also provides information on cultural management practices: the establishment, care and renovation of low-, medium-, and high-maintenance turf areas. 50 color and 400 black and white photographs. **\$32.00**

**230 - LAWN-Third Edition**  
by Dr. Jonas Vengris and Dr. William A. Torello  
Designed as a textbook or a practical usage manual, this book has been completely brought up-to-date. Care of lawns and turfgrass, from selection of varieties to maintenance of established grass is completely covered. **\$25.95**

**645 - MANAGEMENT OF TURFGRASS DISEASES**  
by J.M. Vargas  
Identifies turfgrass diseases by description and illustration. Includes a holistic approach to healthy turf and lawns. Presents practical management strategies for golf courses, lawns and athletic fields. 204 pages, illustrated. **\$26.70**

**640 - TURF IRRIGATION MANUAL**  
by James Watkins  
A guidebook for engineers, architects, designers and contractors. Keeps pace with the latest developments in turf and landscape irrigation. Specific chapters devoted to rotary sprinkler design systems. Golf course design systems and expanded engineering and reference material. **\$26.55**

**225 - TURFGRASS MANAGEMENT**  
by A.J. Turgeon  
Revised edition. Covers the latest developments in turfgrass science and technology. Heavily illustrated with dozens of new drawings. Provides specific recommendations for applying the newest pesticides, fertilizers and other materials to combat turfgrass problems. A valuable reference for diagnosing problems and determining their causes. **\$39.33**



**615 - TURF MANAGEMENT FOR GOLF COURSES**  
by James Beard  
Written by an eminent turfgrass researcher, this USGA sponsored text is an ideal reference and "how to" guide. Details all phases of golf course design and construction, turf management, course administration, irrigation, equipment and disease and pest control. Fully illustrated. **\$52.75**

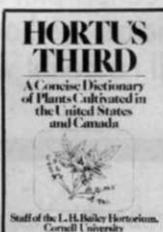
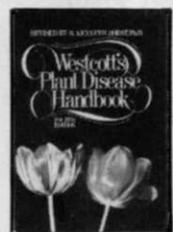
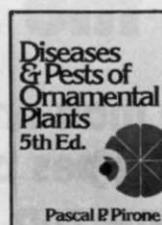
**620 - TURF MANAGEMENT HANDBOOK**  
by Howard Sprague  
Practical guide to turf care under both healthy and poor turf conditions. Chapters cover turf in cooler and warmer regions, fertilizer use, regular turf care, weed and disease control and special turf problems. Useful seasonal schedules for management of turf areas. **\$25.25**

**110 - TURF MANAGERS' HANDBOOK Second Edition**  
by Daniel and Freeborg  
ENTIRELY UPDATED. A practical guide for the turf practitioner. Chapters on grasses, growth regulators and diseases have had extensive modification. Innovations resulting from research and practice have been added to reflect the current techniques available for turf managers. Offers recommendations for effective turf protection through integrated pest management. Included are alternate plans for providing and improving safe, uniform turfgrass for sports fields. Outline format plus newly added index make this new edition easier to use and a more comprehensive approach to turfgrass science. **\$32.95**

**630 - TURFGRASS: SCIENCE AND CULTURE**  
by James Beard  
Comprehensive basic text and reference source used in many leading university turf programs. Includes findings of current research compiled from more than 12,000 sources. **\$39.00**

**410 - DISEASES & PESTS OF ORNAMENTAL PLANTS**  
by Pascal Pirone  
This standard reference discusses diagnosis and treatment of diseases and organisms affecting nearly 500 varieties of ornamental plants grown outdoors, under glass or in the home. Easy to understand explanations of when and how to use the most effective fungicides, insecticides and other control methods. **\$36.50**

**690 - INSECTS THAT FEED ON TREES AND SHRUBS**  
by Johnson and Lyon  
Essential information for identifying more than 650 insect pests and the injuries they cause. More than 200 color illustrations. **\$49.50**



**570 - WESTCOTT'S PLANT DISEASE HANDBOOK**  
by Kenneth Horst  
This fourth edition offers professionals the latest diagnostic and disease control information. Plant entries designed to simplify diagnosis, plus background on the classification of plant pathogens. This handbook gives a specific description of each disease, susceptible plants, specific symptoms of the disease, reported locations and control measures for each disease and their side effects. **\$43.95**

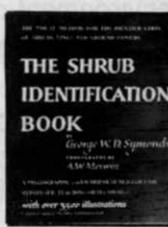
**510 - HORTUS THIRD**  
from Cornell University  
A 1,300 page concise dictionary of plants cultivated in the United States and Canada. A reference which every horticulture professional should have. **\$125.00**

**800 - THE GOLF COURSE**  
by Cornish and Whitten  
The first book ever to give the art of golf course design its due, and golf course architects the credit and recognition they deserve. 320 pages and 150 color and black and white photographs. Traces the history and evolution of the golf course, analyzes the great courses, shows how they were designed and constructed. **\$35.00**

**665 - ARBORICULTURE: THE CARE OF TREES, SHRUBS AND VINES IN THE LANDSCAPE**  
by Richard W. Harris  
Provides comprehensive coverage of complete planting, site analysis, preparation and special planting methods, fully detailed coverage of fertilization, irrigation and pruning guidelines on preventative maintenance, repair and chemical control, how-tos of diagnosing plant problems, practical data on non-infectious disorders, diseases, insects and related pests and pest management. **\$52.00**

**410 - NATIVE TREES, SHRUBS, AND VINES FOR URBAN AND RURAL AMERICA**  
by Gary L. Hightshoe  
This award-winning reference to native U.S. plants has now been expanded to include shrubs and vines. Over 250 major species are characterized by form, branching pattern, foliage, flower, fruits, habitat, soil, hardiness, susceptibility, urban tolerance and associate species. Includes unique color-coded keys that classify plant species by visual characteristics, cultural requirements and ecological relationships. **\$79.95**

**720 - SHRUB IDENTIFICATION**  
by George Symonds  
Pictorial key to identify shrubs. Contains more than 3,500 illustrations to check specimens. Popular and botanical names are given for each shrub and handy index tabs for quick reference. **\$12.95**



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108	122	136	150	164	178	192	206	220	234	248	262	276	290	304	318	332
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110	124	138	152	166	180	194	208	222	236	250	264	278	292	306	320	334
111	125	139	153	167	181	195	209	223	237	251	265	279	293	307	321	335
112	126	140	154	168	182	196	210	224	238	252	266	280	294	308	322	336
113	127	141	155	169	183	197	211	225	239	253	267	281	295	309	323	337
114	128	142	156	170	184	198	212	226	240	254	268	282	296	310	324	338

## LANDSCAPE MANAGEMENT

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MY PRIMARY BUSINESS AT THIS LOCATION IS:  
(PLEASE CHECK ONE ONLY IN EITHER  
A, B OR C)

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FOLLOWING TYPES OF FACILITIES:**

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0010  Sport complexes  
0015  Parks  
0020  Rights-of-way maintenance for highways, railroads & utilities  
0025  Schools, colleges & universities  
0030  Industrial & office parks/plants  
0045  Condominiums/apartments/housing developments/  
hotels/resorts  
0050  Cemeteries/memorial gardens  
0060  Military installations & prisons  
0065  Airports  
0070  Multiple government/municipal facilities  
 Other type of facility (please specify) \_\_\_\_\_

**B. CONTRACTORS/SERVICE COMPANIES/CONSULTANTS:**

- 0105  Landscape contractors (installation & maintenance)  
0110  Lawn care service companies  
0125  Landscape architects  
0135  Extension agents/consultants for horticulture  
 Other contractor or service  
(please specify) \_\_\_\_\_

**C. SUPPLIERS:**

- 0205  Sod growers  Other supplier (please specify)  
0210  Dealers, Distributors \_\_\_\_\_

Approximately how many acres of vegetation do you  
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What is your title? (please specify) \_\_\_\_\_

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Your Signature: \_\_\_\_\_ Date: \_\_\_\_\_



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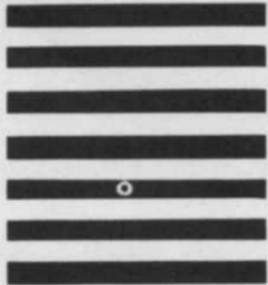
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## 750 - TREE IDENTIFICATION

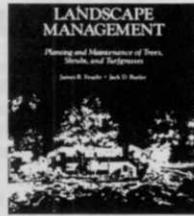
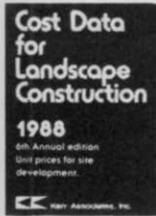
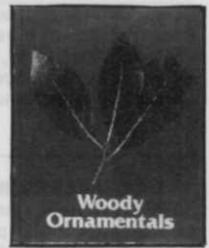
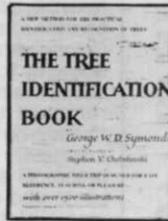
by *George Symonds*  
Pictorial reference to identifying trees by checking leaves, buds, branches, fruit and bark. Like its sister publication, SHRUB IDENTIFICATION, popular and botanical names are listed with index tabs for easy reference. **\$14.95**

## 760 - TREE MAINTENANCE

by *Pascal Pirone*  
The fourth edition of this guide for anyone involved in the care and treatment of trees. Special sections on tree abnormalities, diagnosing tree troubles, non-parasitic injuries and assessing the suitability of different trees. **\$49.95**

## 405 - WOODY ORNAMENTALS

by *Partyka, Joyner, Rimelspach, Carver*  
Illustrates plant identification characteristics. Organized in two basic sections: plant identification and plant disorders, this text utilizes 430 color photos, 430 line drawings and 45 black and white photos to simplify identification. **\$32.50**



## 345 - COST DATA FOR LANDSCAPE CONSTRUCTION 1988

by *Kathleen W. Kerr, Editor*  
An updated unit cost data reference for designers and cost estimators. Developed to fill the tremendous need for detailed landscape construction cost data. Laid out in easy-to-use CSI format. Annual. **\$35.00**

## 300 - LANDSCAPE DESIGN: A PRACTICAL APPROACH

by *Leroy Hannebaum*  
Geared for the commercial designer/salesperson, this is a one-stop guide to the landscape design process. Covers the entire highly competitive field including design analysis techniques, pointers on land forms, specialized business landscaping methods, environmental design guidelines, specifications, estimations, bids. **\$37.00**

## 305 - LANDSCAPE MANAGEMENT

by *James R. Feucht and Jack D. Butler*  
Planting and Maintenance of Trees, Shrubs, and Turfgrasses. Describes the basic principles of cultural management of installed landscapes. The important factors of plant growth, soils and fertilizers, improved planting techniques and new pruning techniques, integrated pest and disease management, and spray-equipment calibration and care are all featured. **\$29.95**

## 370 - LANDSCAPE OPERATIONS: MANAGEMENT, METHODS & MATERIALS

by *Leroy Hannebaum*  
An in-depth examination that combines technical training in landscape science with methods of accounting, business management, marketing and sales. Discusses effective methods for performing lawn installations, landscape planting and maintenance. Step-by-step accounting calculations are explained in simple terms. **\$34.00**

## 365 - LANDSCAPE PLANTS IN DESIGN

by *Edward C. Martin*  
An annotated photographic guide to the design qualities of ornamental plants and their aesthetic and functional use in landscape designing. Over 600 trees, shrubs, vines, ground covers and turfgrasses are described in nontechnical language. Over 1900 photographs. Provides a basis for selecting the best plant materials for any particular use in landscape design. Contains detailed indexes that provide quick reference to particular design qualities and growing conditions. **\$58.95**

## 375 - RESIDENTIAL LANDSCAPES

by *Gregory M. Pierceall*  
An excellent reference for individuals involved in the design and development of plantings and constructed features for residential sites. Illustrations and actual residential case study examples are used to communicate graphic, planning and design concepts which are the focus of this text. **\$41.00**

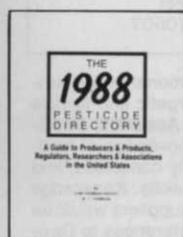


## 565 - WEEDS

by *Walter Muenschler*  
Second edition. Premier text for identification and basic natural history for weeds found in the continental United States and Canada. Ecological data on weed biology combined with excellent keys and plant descriptions make this an essential reference book. **\$39.95**

## 125 - SCIENTIFIC GUIDE TO PEST CONTROL OPERATIONS

by *Truman, Bennett, Butts*  
Provides a sound basis for studying the technical aspects of pest control. Covers pesticides, safety, health and environmental concerns, equipment, flies and mosquitos, rats and mice, birds and much more. **\$35.00**



## 500 - THE 1988 PESTICIDE DIRECTORY

by *Lori Thomson Harvey and W.T. Thomson*  
A Guide to Producers and Products, Regulators, Researchers and Associations in the United States. For the person who needs to know anything in the United States pesticide industry. Includes Basic Manufacturers and Formulators with their products, key personnel, managers, district/regional offices and other pertinent information. For United States pesticide information in one place, this directory is a must. **\$75.00**

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**TREE DEPARTMENT MANAGER:** Large landscape contracting company in southeastern Pennsylvania with a well established tree division needs an experienced, mature individual to handle sales and management of department. Great opportunity in a busy area. Send resume to LM Box 458. 9/88

**TREE CLIMBERS/BUCKET TRUCK OPERATORS.** Landscape maintenance company needs reliable, experienced persons for immediate employment. Salary negotiable based on training and experience. Send resume with references to Boyd Enterprises, 16632 Oakmont Avenue, Gaithersburg, MD 20877. 10/88

**FIELD PRODUCTION MANAGER** - Excellent employment opportunity available for major farming operation in southern New Jersey. Salary pay up to \$25,000/year plus benefits. Send resume to: Jade Run Sod Farm, P.O. Box 586, Mt. Holly, NJ 08060, or call (609)265-0404. 9/88

Excellent career opportunities for aggressive experienced professionals in our growing, award winning Company: **Production Manager, Landscape & Maintenance Supervisors, Chemical Applicator, Irrigation Superintendent.** Please send resume & salary requirements or call for more info. **RUPPERT LANDSCAPE COMPANY, INC.,** 17701 New Hampshire Avenue, Ashton, MD 20861, 301-924-5415. Attn: Kenneth Hochkeppel. 9/88

Large landscape - grounds maintenance company looking for qualified Foreman. Knowledgeable in plant identification and pruning. Must have good management and communications skills. Excellent pay for the right person. Send resume in confidence to: R.B. Stout, Inc., 1285 N. Cleve-Mass Rd., Akron, OH 44313. 9/88

**LANDSCAPE DESIGNER:** Greener Landscapes is seeking an experienced landscape designer to join our rapidly growing organization. You must be able to oversee projects from beginning to end including design, job cost estimation and overseeing installation. The ability to design, present and sell your designs will be essential to your success. Qualified candidates send resume with salary requirements to Greener Landscapes, P.O. Box 341, Bedford Hills, NY 10507, or call 914-666-0714. 9/88

**MANAGEMENT** — Established Midwest company with solid growth is once again needing top-notch working managers to fill the following positions:

**MARKETING/SALES MANAGER** — Must be progressive minded, large budget for 3-6 branches of planning and implementation training sales managers, 3 years minimum, verifiable experience in LM field.

**SALES MANAGEMENT** — Branch level with full responsibility for telemarketing, mailing, etc. \$300,000-\$500,000 sales annually. Full-time position.

**BRANCH MANAGERS** — Two years experience preferred, must have both spray application and landscape maintenance background. Extremely busy and fun position.

We are a full service multi-department company with a growth curve created by careful placement of qualified individuals. Competitive salary & benefits with solid growth potential. Resumes to: Landscape Opportunities, P.O. Box 471333, Tulsa, OK 74147-1333.

## LANDSCAPE MAINTENANCE FOREMAN

**THORNAPPLE LANDSCAPE MAINTENANCE, INC.** a fast-growing firm serving commercial accounts throughout the Chicago Metropolitan area, has a career opening for an individual in the landscape maintenance field. Applicants are required to have two to five years "hands-on" experience, knowledge of machinery use and maintenance and technical expertise and knowledge of pests and diseases. A degree in Ornamental Horticulture is desired. **THORNAPPLE** is a well regarded, quality oriented firm which will give the right person a challenging career opportunity. All inquiries will be completely confidential. Send resume, work history and salary requirements to

**THORNAPPLE LANDSCAPE MAINTENANCE, INC.**  
Attn: Mr. Steve Pease  
P.O. Box 626  
Geneva, IL 60134

**FIELD OPERATIONS SUPERVISOR** for expanding Boston area full service tree and landscape company. Responsibilities to include operations management of 4-6 crews along with limited field work. You should have a strong and diverse technical background including trees, turf and spraying, plus previous management/supervisory experience, and a willingness to locate in the suburban Boston area. Full package of benefits. Starting salary 30K +. Please ask for Mike. 617-359-4855. 9/88

Supervisors & Forepersons: Glen Summit Nurseries located in West Central New Jersey has supervisory and foreperson positions open in rapidly growing field of landscape maintenance and construction. If you feel you are ready for advancement or are under-employed in your present position, call us for confidential interview at 201-735-4400, 8 a.m.—4:30 p.m. or send resume to: Glen Summit Nurseries, Inc., P.O. Box 209, Pittstown, NJ 08867, Attn: Mr. Pensyl. 10/88

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Florida Landscape Contractor in business 15 years, has an opening for an experienced landscape architect or highly qualified sales person to handle design build sales and business development. Applicant must be a self-starter and possess strong sales skills. Unlimited potential in a growing firm with a top notch track record. Contact Mr. Singh (305) 831-8101. 9/88

Established Central Florida landscape contractor has an opening for a highly qualified operations manager for its maintenance division. Ability to schedule, organize and manage people in a rapidly growing organization. Heavy field experience and a commitment to quality work required. Opportunity for an aggressive person to be a key member of a top-notch team. Excellent salary and benefits. Call Mr. Singh (305) 831-8101. 9/88

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As a member of our management team responsibilities include major account management, sales forecasting and budgeting, marketing, recruitment, and training. Candidates should have an undergraduate degree or equivalent and an in-depth knowledge of arboriculture.

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Responsible for developing and servicing a customer base in an assigned territory. Ideal candidate will have a college degree in horticulture or a related field and a strong desire to succeed. Previous sales experience is a plus.

## Director of Training and Safety

Responsible for training and supervising all field personnel to ensure that established quality control standards are maintained. This will include all phases of tree work.

Position requires at least five years of experience in all aspects of tree and shrub care. Candidates must have excellent interpersonal skills and the ability to develop and administer a formal training program.

These positions offer outstanding compensation.

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Plant Acquisition Assistant - National award winning landscape firm seeks energetic and flexible individual for Plant Acquisition Assistant. Candidate should have a working knowledge of landscape plant materials, be quality conscious, and possess good communication skills. Knowledge of local/regional nurseries and suppliers would be beneficial. Send resume with references to Dave Scatterday, Martin Associates, 24380 N. Hwy #45, Vernon Hills, IL 60061. 9/88



June 1, 1988

## AN OPEN LETTER TO ROADSIDE VEGETATION MANAGERS For DOT: TURNPIKES, COUNTIES, AND CITIES

If your vocation is roadside vegetation - landscaping or maintenance then we believe the National Roadside Vegetation Management Association should be of interest to you.



New officers of NRVMA are, from left, Paul Corridon, American Cyanamid, secretary-treasurer; Carl B. Wells, Kentucky DOT, president; and Robert E. Tatman, Ohio DOT, vice president.

We meet once a year and our next conference is scheduled for October 11 - 13 at the Dallas, TX Hilton. NRVMA was formed in 1984 to exchange ideas, opinions and experiences, to discuss vegetation management activities regarding safety, functional and operational characteristics, economy, roadside beautification and aesthetics, and ecological soundness; and to promote more and better coordinated efforts among those interested and engaged in roadside vegetation management.

There are 5 types of memberships - Roadside Managers, Associate, Affiliate, Supporting and Sustaining. The two primary memberships are Roadside Managers at a cost of \$35 per year and Associate which costs \$45 per year.

### THE INGREDIENTS OF A CONFERENCE

#### ▲ Educational lectures and talks on the topics most relevant to roadside management;

Landscaping & Beautification	Roadside Management Equipment
The Use of Wildflowers	Mowing Equipment and Practices
Herbicides and their Use	Soil Stabilization
Growth Regulators	State and Federal Regulations
Roadsides and the Environment	Roadside Parks

#### ▲ Equipment show/product exhibits. Forty-eight major suppliers exhibited their products at the last conference.

A 3 1/2 hour period allows each exhibitor an opportunity to demonstrate/explain product performance.

#### ▲ Regional Sessions

The country is divided into 3 geographical areas (N, S, W) and a 2 1/2 hour time period is scheduled so that roadside managers with common problems can exchange ideas/information on the how and whys of their programs.

#### ▲ Roadside Excellence in Roadside Management

NRVMA cooperation with Monsanto sponsors a 4 category program to determine the most successful roadside managers in the U.S. The contest is categorized: State Highways and Turnpikes, Counties, Cities, and Roadside Support. Winners are announced during a special luncheon and then they are allowed 25 minutes of time on the program to review their winning programs. This is followed by national publicity in the major roadside magazines and local publicity. The objective is to upgrade the roadside management practices and generate support for the industry.

We are confident NRVMA has plenty to offer vegetation managers and we look forward to "seeing you in Dallas."

Sincerely Yours,  
Carl B. Wells,  
President NRVMA

For additional information, cut out and mail to:

T.J. Hernandez  
309 Center Hill Road  
Wilmington, DE 19807

I am interested in membership:  
 Roadside (City, County, DOT) \$35  
 Associate (Supplier, Press, Applicator) \$45

Circle No. 150 on Reader Inquiry Card



Winners of the 1987 NRVMA Excellence in Roadside Vegetation Management Awards are, from left, Richard Friddle, city of Bossier, La.; Don Squire, Jackson County, Ore.; Joe Hay, Oregon Highway Division; and Gerald Stephenson, DuPont.

Photos by Roads and Bridges



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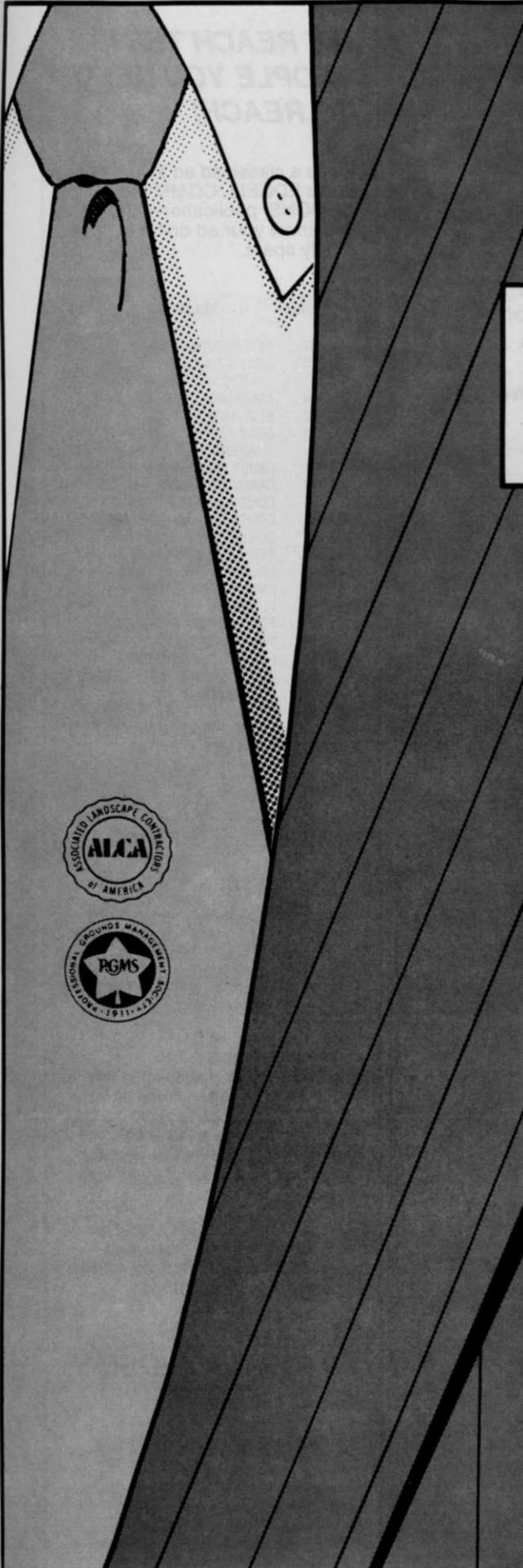
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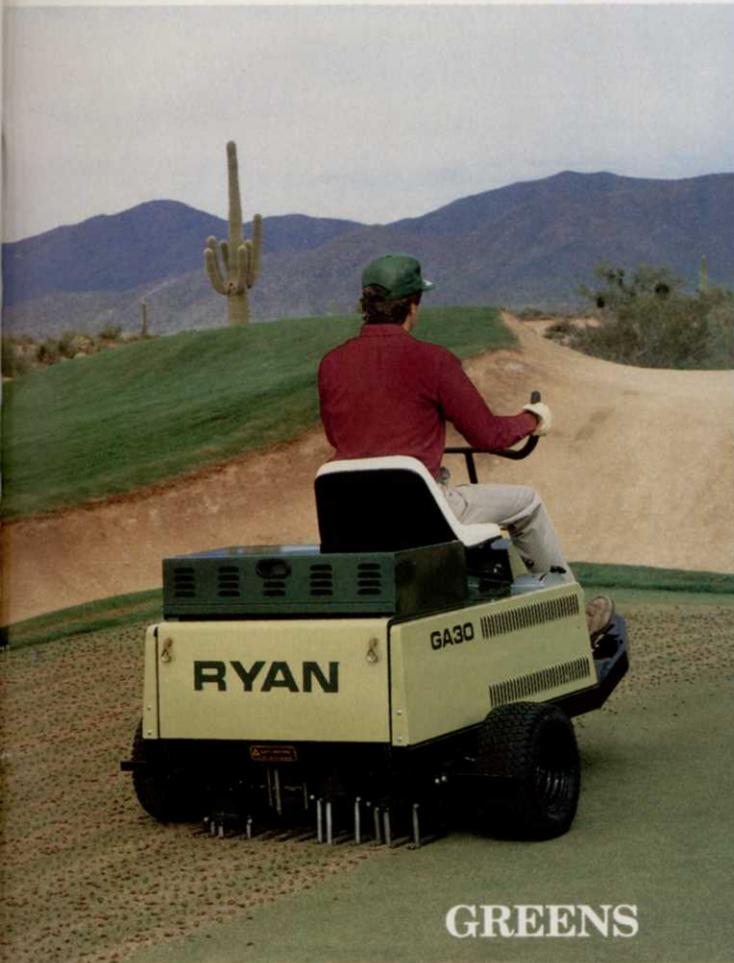
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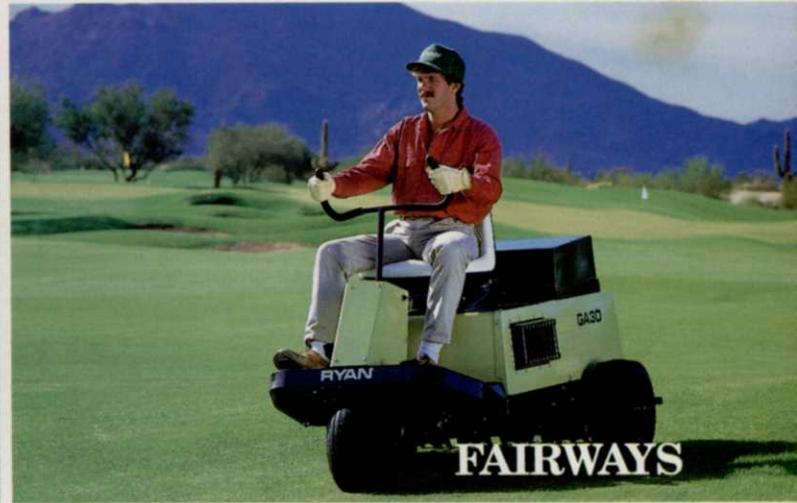
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