

PENNEAGLE Creeping Bentgrass

13th hole, North Course, Des Moines Golf and CC

//SINCE WE REPLACED OUR BLUEGRASS FAIRWAYS WITH PENNEAGLE, PLAYER SATISFACTION IS UP 500%"

Bill Byers completely renovated all 36 fairways at Des Moines Golf and CC over a period of three years ... nine in 1985, nine in 1986 and the remainder in 1987.

Three days after spraying the existing bluegrass/Poa annua fairways with a non-selective herbicide, Penneagle

*Bill Byers, CGCS
Des Moines Golf and CC, Iowa*



was slit-seeded into the surface. When play resumed in seven days, members had the option of playing from the germinating fairways or taking a drop in the rough.

Bill finds that lightweight mowing keeps the Poa population in control. "I used the clippings for garden mulch one year, that resulted in a terrific stand of Poa. This illustrates the effectiveness of removing clippings and seed heads."

Overall, the new Penneagle fairways require less water than trying to maintain the old bluegrass/Poa fairways, and Penneagle proved to be drought tolerant during the dry summers.

"Bentgrass fairways are in demand in our area. Other courses in Des Moines have

made the switch," says Bill, "And we find that our player satisfaction is up 500%."

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SEPTEMBER 1990/LANDSCAPE MANAGEMENT 1

JOHN DEERE



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LECTION

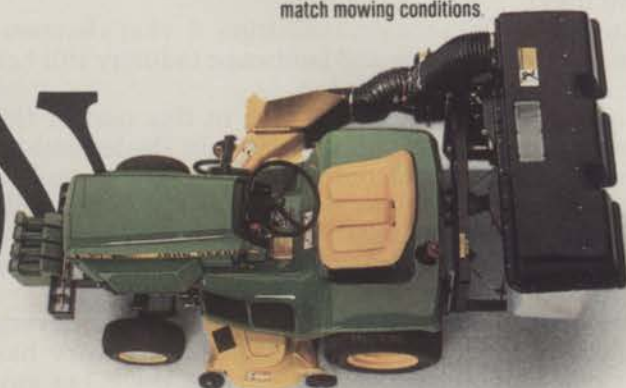


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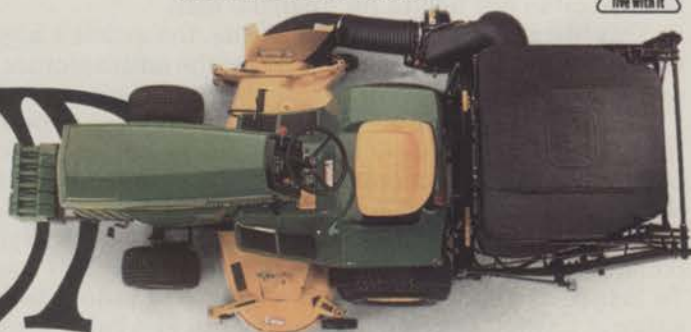
▶ **POWER FLOW.** Two-bag, 6½-bushel capacity features a 13-inch mower-driven fan assist for tight packing. Window in hopper for monitoring the fill.

▼ **POWER PAK.** Three-bag, 10-bushel-capacity system. Features 6-hp engine with variable-speed fan to match mowing conditions.



▶ **TILT DUMP.** Big 13-bushel system with variable-speed fan powered by 6-hp engine. Hopper dumps on ground by tilting backward.

▼ **HYDRAULIC DUMP.** Designed to raise 5½ feet and dump into a truck. Features a 6-hp engine, variable-speed fan and 13-bushel capacity.



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TEST
TRAIL



Striking back at industry's 'good friends'

Our "good friends," the environmental activists, just won't give us a break, will they?

If events in northern Ohio are any indication of what's happening around the country, the lawn and landscape industry still has a lot of public relations work remaining.

The most recent abomination to appear in this part of the country was an editorial in the Cleveland Plain Dealer emblazoned with the headline "Watch out for toxic lawns" in no less than 48-point type. The author was identified as Kim Hill, a self-proclaimed "environmental activist" who, for years, has been a thorn in the side of the Ohio Pesticide Applicators for Responsible Regulation (OPARR).

About once a year, the outspoken Mr. Hill dredges up every conceivable piece of bad publicity the pesticide industry has endured since 1980, and assembles an article for the PD or any other such mass disseminator of information irresponsible enough to publicly air his distorted claims.

In the "toxic lawn" article, Hill resurrected the case of Navy Lt. George Prior, the National Cancer Institute's Kansas study, non-Hodgkins lymphoma, Agent Orange, diazinon waterfowl kills and—of course—the ghost of Spike the English bulldog.

The article concluded with this:

"Thousands of miniature Spikes now stand guard on poisoned lawns all across Ohio, warning of the danger. The ghost dog on each sign silently accuses the thoughtless people who order lawn chemicals, applicators who spread the poisons, and companies that threaten our health for financial gain."

This blatant emotional appeal aside, the article's bigger threat came from the author's failure to paint the entire picture in almost every instance.

So this intrepid editor—a self-proclaimed "environmental activist" in his own right—journeyed into the nether world of newspapers where, in another life, he once claimed a rightful spot and even won a few awards for his reporting and writing.

A three-and-a-half page letter refuting and clarifying every point of contention made by the illustrious Mr. Hill was written. To insure its validity, I enlisted the help of Elliot Maras, former editor of LAWN CARE INDUSTRY magazine, and Paul Skorupa of the Pesticide Public Policy Foundation (PPPF).

Five days after it was placed in the mail, I phoned the paper to see if, possibly, perchance, my letter would ever see the light of day again.

My phone call was answered with a recording: "Hope we haven't left you on hold so long that it seems like you've drifted out to sea..."

(To be continued)

Jerry Roche

Jerry Roche, executive editor

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Carl Aebersold, harvesting crew foreman at Pacific Sod, Camarillo, CA, is pleased with the above-, and below-surface performance of dwarfed Monarch turf-type tall fescue.

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Species	Variety
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Improved turf-type perennial ryegrass	Birdie II Charger Citation II Manhattan II Omega II Remington Saturn Alliance blend CBS II blend
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Improved Chewings fescue	Shadow
Improved Sheeps fescue	Bighorn
Improved creeping fescue	Flyer Fortress Shademaster
Improved tall fescue	Apache Bonanza Eldorado Monarch Murietta Olympic Silverado Triathalawn blend
Improved creeping bentgrass	Penncross Penneagle PennLinks
Creeping bentgrass blend	Pennway

TURF-SEED

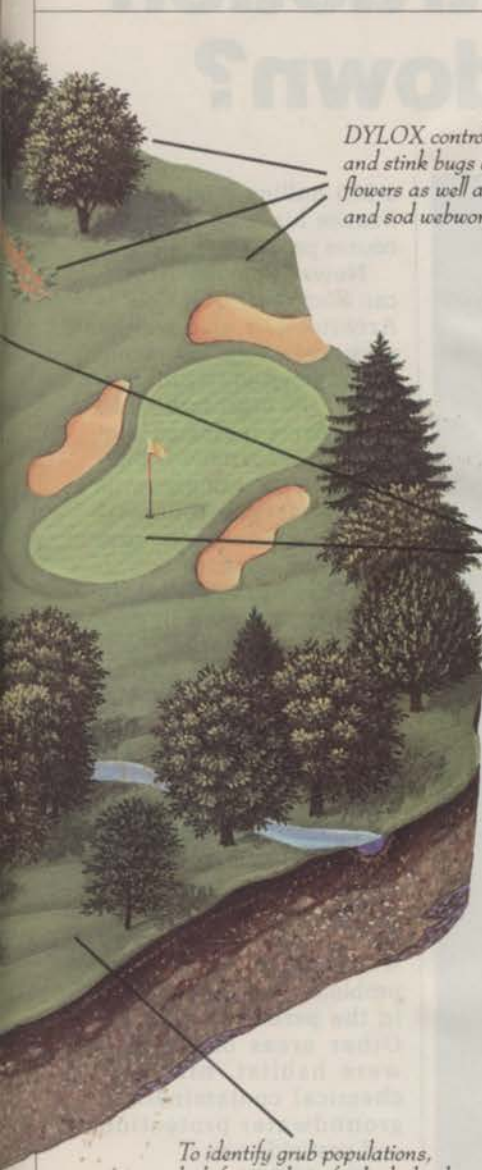
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For best results, thoroughly irrigate prior to treatment. Follow your application by watering in to a depth of 1 to 1½ inches.

When you have grub control this effective, you have grounds to celebrate.



DYLOX controls armyworms, bagworms, and stink bugs on your trees, shrubs, and flowers as well as controlling cutworms and sod webworms on your turf.

OFTANOL also controls billbugs, cutworms, chinch bugs, *Hyperodes weevil*, and sod webworms.

To identify grub populations, look for patches of wilted, dead or dying turf. Grub-infested turf has pruned roots which make it easy to pull back like carpet.

Some of the most celebrated courses in the country turn to Mobay products for grub protection.

For preventative treatment, there's OFTANOL® Insecticide. It controls grubs longer than any other product available. Apply it in the spring before grubs show up. After all, spring rains and temperatures can mask a grub problem.

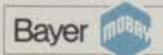
Or apply a pre-damage application of OFTANOL when grub eggs hatch and activity begins (usually right after a drought-breaking rain in the early fall). But only apply OFTANOL once a year. If you've already used it in the spring, treat with DYLOX® Insecticide.

Of course, if grub damage turns up, apply DYLOX followed by heavy watering. DYLOX controls grubs in as little as 24 to 48 hours.

For more information, contact your Mobay distributor or Mobay sales representative. They can help you make your turf look great. And that makes you look great. Which is cause enough to celebrate.

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LANDSCAPE MANAGEMENT

GOLF

Is golf course construction heading for a slowdown?

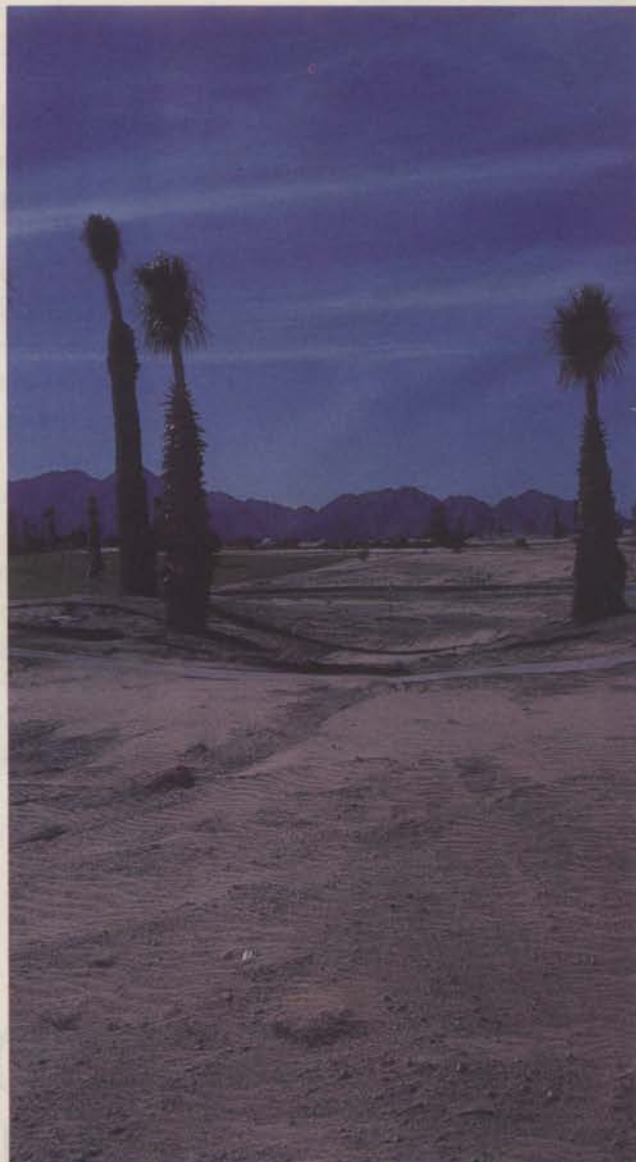
Despite a goal set forth by the National Golf Foundation of building one new golf course every day in the U.S. to meet golfer demands, the golf course construction market could be softening a bit.

According to The Lannert Group of St. Charles, Ill., hyperinflated land prices and the tightened availability of money for financing may well herald a swan song for sprawling large residential developments, especially those built around golf courses.

"This is the current situation, even though the game of golf is so popular that courses can't be built quickly enough to keep up with demand," says J. Christopher Lannert. But he says that, in coming months, relatively few developers will be able to buy land to build golf courses, with or without the residential aspect.

"The type of large-scale development that has been fueling the economy and inflating land prices is currently dying out," he notes. "This is occurring because of high land costs, inflationary interest rates and municipal and county approvals that take too long.

"In the future, we'll generally see more phase-by-phase developments. It simply is too difficult for the individual developer to get



Lack of affordable land and high interest rates may put construction like this in Palm Desert, Calif., in jeopardy.

a \$20 million land loan to finance his large-scale golf course project."

News from the American Society of Golf Course Architects is also on the pessimistic side. In a recent environmental impact survey by the organization, 39 of 40 firms indicated that they had experienced difficulties in obtaining permits for projects because of environmental concerns by governmental agencies.

"This survey vividly demonstrates the impact that environmental concerns have on the golf industry," says ASGCA president Dan Maples, "and the need for the industry to work with key agencies to develop mutually-acceptable guidelines that will be interpreted uniformly throughout the country."

Fifty-six percent of the ASGCA member firms cited wetlands as the primary problem they encountered in the permitting process. Other areas of concern were habitat, nitrates/chemical contamination, groundwater protection and pesticide use.

The ASGCA survey also determined that new golf course projects have experienced the most delays because of objections by the Corps of Engineers. Local planning commissions were also cited as bot

continued on page 12

PEOPLE

Dudeck joins LM advisors

CLEVELAND — A.E. Dudeck, Ph.D., has been added to LANDSCAPE MANAGEMENT's Editorial Advisory Board, replacing Dr. Robert Shearman, who resigned when the University of Nebraska promoted him.

Dr. Dudeck has been professor of turfgrass science at the University of Florida's Institute of Food and Agricultural Sciences since 1974. Prior to that, he worked at the university's Agricultural Research and Education Center in Ft. Lauderdale and at the University of Nebraska with a federal roadside beautification grant.

At Florida, Dudeck's ap-



Dr. A.E. Dudeck

pointment is 60 percent research and 40 percent teaching. His specialties are turf breeding and selection, water quality/environmental and composting.

The new LM advisor earned his Ph.D. from Penn State University. □

PRODUCTS

New pesticides get label tests

WASHINGTON, D.C. — New control products designed for the landscape/nursery market are being considered for labels by the U.S. EPA.

They are Barricade pre-emergence herbicide, SAN 619 fungicide and Crusade insecticide. In a related action, the EPA has labeled Pennant pre-emergence herbicide for southern turf.

● Sandoz Crop Protection unveiled Barricade and SAN 619 at a series of product introduction seminars this summer.

Barricade (prodiamine) is the most active of all the dinitroaniline herbicides, says Dr. Tom Breggar of Sandoz, meaning that less of it will be needed to get weed control. It will feature long residual control of grasses and broadleaf weeds. It is expected to be registered for turf uses in 1991, says Mike Minford of Sandoz.

SAN 619 (cyproconazole) is yet to given a trade name. It's a systemic

fungicide for golf courses and commercial growing establishments. Initially, not all turf diseases will be on the label, but a more extensive label will be developed. It will reportedly come in a water-soluble, pre-measured packet that covers one acre.

● ICI Americas has begun a test program at golf courses nationwide for Crusade 5G. Crusade, which can be applied to both cool- and warm-season grasses, controls chinch bugs, sod webworms, earwigs, cutworms, white grub larvae, mole crickets and billbugs.

Product manager Greg Gergen anticipates full distribution for the 1991 season.

● Pennant's new label includes uses on bermudagrass, bahiagrass, St. Augustinegrass and centipedegrass. It controls yellow nutsedge, crabgrass, goosegrass and many other broadleaf and grassy weeds. □

NEWS BRIEFS

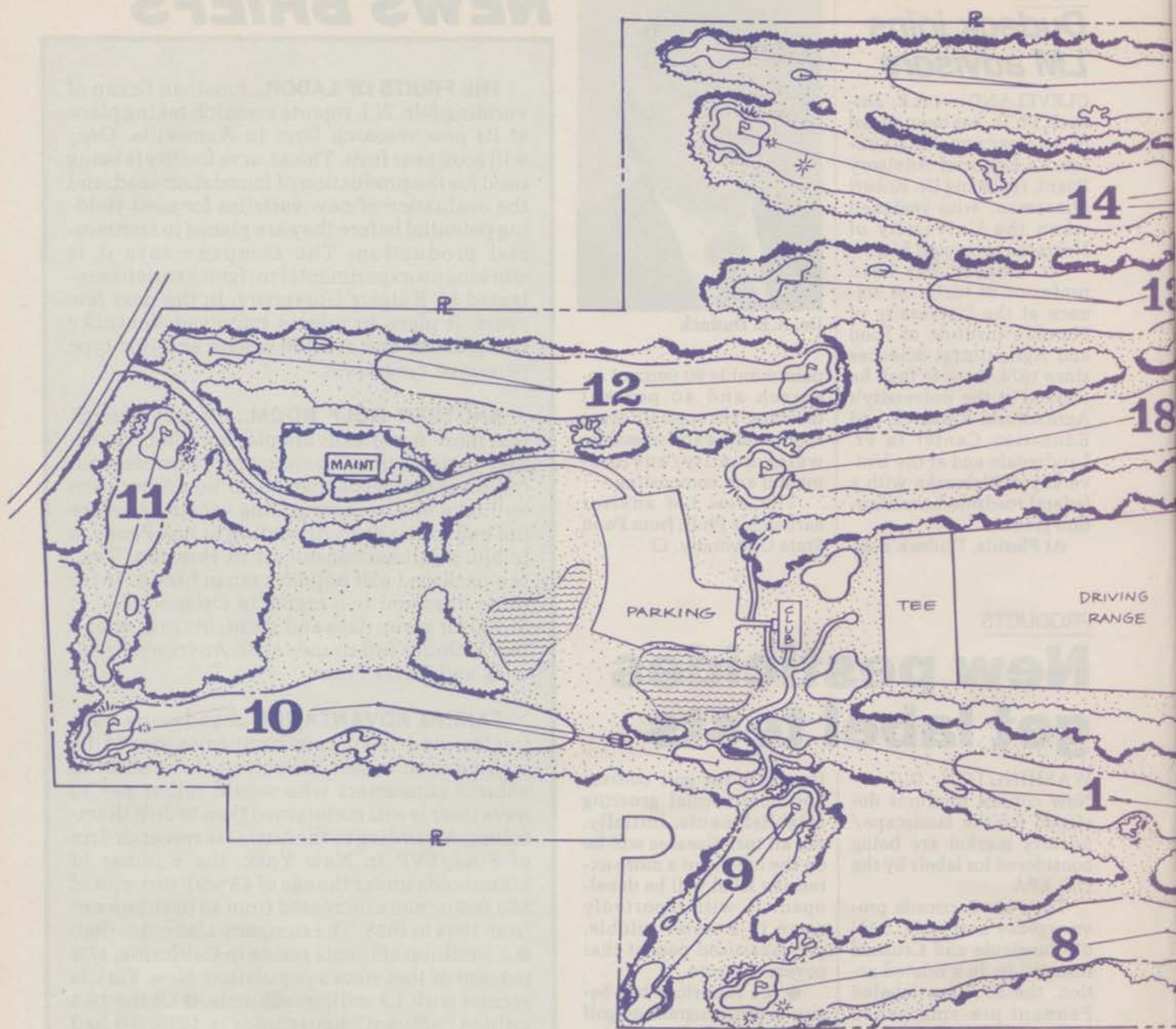
THE FRUITS OF LABOR... Jonathan Green of Farmingdale, N.J. reports research taking place at its new research farm in Aumsville, Ore., will soon bear fruit. The 48-acre facility is being used for the production of foundation seed, and the evaluation of new varieties for seed yielding potential before they are placed in commercial production. The company says it is working on experimental turfgrass varieties released by Rutgers University. In the next few years, it plans to release improved Kentucky bluegrasses, fine and tall fescue and turf-type perennial ryegrasses.

ANOTHER GOLF BOOM... It's not enough that more Americans are playing golf on a regular basis in their hometowns. Now research indicates that more than 20 million Americans will take one or more golfing vacations before the end of the year. According to **Bob Penny**, a public relations consultant in Houston, Tex., pre-packaged golf holidays range from \$148 for three days and two nights in Orlando, Fla. to \$1,100 for seven days and six nights in Scotland that includes full rounds at St. Andrews, Prestwick and Royal Troon.

TAKING ADVANTAGE? Landscape contractors and lawn care companies would be well-advised to take advantage of the boom in affluent consumers who would rather pay to have their lawns maintained than to do it themselves. According to the business research firm of Find/SVP in New York, the number of households under the age of 45 with incomes of \$50,000 or more increased from 45 to 50 percent from 1984 to 1988. The company also notes that: ● 2.7 million affluents reside in California, 17.8 percent of that state's population. New York is second with 1.3 million affluents. ● Of the 19.3 million "affluent" households in 1988, 6.9 had incomes of \$75,000 or more per year.

DOLLARS FOR PLOTS... The turfgrass research program at Penn State University received \$125,000 from the Pennsylvania Turfgrass Council for the 1990 research year. According to **Dr. Tom Watschke**, the money will be used to support the Landscape Management and Water Quality Research Center and other areas of the turf program, including the Joseph Valentine Turf Research Center.

A NEW MILESTONE... Chalk up the 10,000th member for the Golf Course Superintendents Association of America. She is **Norma M. O'Leary**, super at Silver Bay (Minn.) Country Club. The association's membership has doubled in seven years.



You've designed the ultimate floor

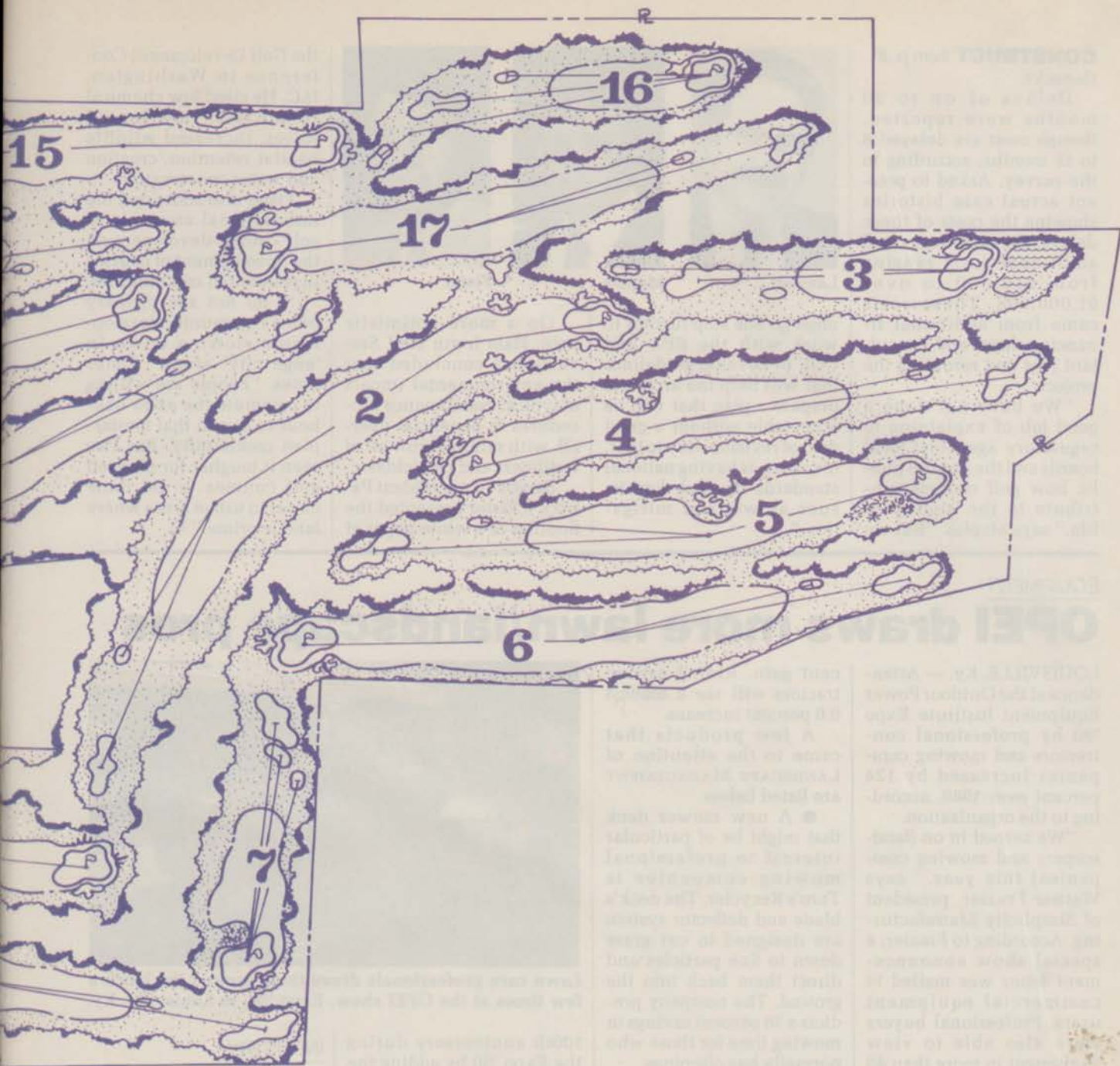
Compared to all the work that goes into building a golf course these days, choosing the seed and fertilizer is simple.

You simply choose the proven, the failsafe, the best. Scotts® HD Starter® Fertilizer and PennPals® bentgrass seed.

HD (for high density) Starter Fertilizer gives new seedlings everything they need, except sunshine and water. It provides controlled-release nitrogen in proper balance with readily-available phosphorus and potassium

to promote vigorous seedling growth and root development. And its homogenous, free flowing, high density particles provide even distribution of required nutrients.

You don't have to worry about it burning or quitting early, either. HD Starter uses a readily-available phosphorus source (monoammonium phosphate) to stimulate rapid response and safely transform newly seeded areas into thick, attractive turf. While controlled-release nitrogen assures sustained, vigorous top growth.



plan. Don't skimp on the carpeting.

But, of course, no matter what fertilizer you use, you have to start with the best seed. Penncross, Oregon Blue Tag Certified Seed, is the standard of the industry. For thirty-five years it's proven itself through heat, drought, snow and flood as the premium surface for greens, tees and fairways.

Your Scott Tech Rep—a trained agronomist—can help you design a seeding and fertility program to fit your exact floor plan and your budget. Which makes it seem silly to consider

anything else. Because the way we see it, designing a golf course and skimping on the turf is like designing a swimming pool and skimping on the water.


© 1989 O.M. Scott and Sons. *Penncross, Pennridge, PennLinks and Pennway blend from Tee-2-Green Corp.

CONSTRUCT from p. 8

Delays of up to 30 months were reported, though most are delayed 8 to 12 months, according to the survey. Asked to present actual case histories showing the costs of these delays, the architects cited additional costs ranging from \$10,000 to over \$1,000,000. These costs came from additional financing, legal and consultant fees and rerouting the project.

"We have not done a good job of explaining to regulatory agencies, local boards and the general public how golf courses contribute to the quality of life," says Maples. "But we



Lannert



Maples



Fister

must go one step further to work with the EPA and COE to develop guidelines that will help the architect prepare a plan that will be acceptable without a great deal of revision. Key to that, of course, is having national standards on such key issues as wetland mitigation."

On a more optimistic note, Hale Irwin Golf Services has concluded that the environmental impact of typical maintenance procedures is beneficial overall, with minimal run-off of fertilizers and pesticides.

Senior vice president Patrick J. Fister presented the findings of a white paper at

the Golf Development Conference in Washington, D.C. He cited low chemical runoff rates, low topsoil losses, increased wildlife habitat retention/creation and water conservation.

Fister also addressed the international assembly of golf course developers on the development of courses in residential communities.

"I do not see primary home community developments slowing down in 'edge city' areas," Fister notes. "People are willing to commute the extra half-hour to live in that master-plan community. But I've seen it tougher for planned golf courses to get done closer to urban areas where land is prime." □

EQUIPMENT

OPEI draws more lawn/landscape pros

LOUISVILLE, Ky. — Attendance at the Outdoor Power Equipment Institute Expo '90 by professional contractors and mowing companies increased by 124 percent over 1989, according to the organization.

"We zeroed in on (landscapers and mowing companies) this year," says Warner Frazier, president of Simplicity Manufacturing. According to Frazier, a special show announcement letter was mailed to commercial equipment users. Professional buyers were also able to view equipment in more than 40 outdoor commercial exhibits.

The OPEI show, held here every year, is largely attended by equipment dealers and distributors; however attendance is often used to gauge overall interest in power equipment markets.

Data released at the show by Association Research, Inc., shows a projected 4 percent increase in shipments of walk-behind mowers in 1990 over last year. Shipments of rear-engine riding mowers are expected to fall by 8.4 percent this year; shipments of front-engine lawn tractors should realize a 12.7 per-

cent gain. Riding garden tractors will see a modest 0.6 percent increase.

A few products that came to the attention of LANDSCAPE MANAGEMENT are listed below.

- A new mower deck that might be of particular interest to professional mowing companies is Toro's Recycler. The deck's blade and deflector system are designed to cut grass down to fine particles and direct them back into the ground. The company predicts a 38 percent savings in mowing time for those who normally bag clippings.

- The PE 2201 trimmer from Echo is ready for use by the professional market. Equipped with a commercial-duty 21.2 cc engine, the trimmer features an all-position diaphragm carburetor with a purge system for quick easy starts, and an anti-vibration system to reduce user fatigue.

- Shindaiwa's Tornado cutter blade is a low-kick, heavy brush and tree blade. It has only six teeth and an easy feed ramped depth gauge located at the front of each cutter. The gauge reduces kickback and snag, says Shindaiwa, producing faster, easier cutting.

- Kubota celebrated its



Lawn care professionals drove them around the block a few times at the OPEI show, Expo '90, in Louisville, Ky.

100th anniversary during the Expo '90 by adding the W5021-PCC walk-behind mower to its commercial turf-maintenance line.

The mower's 5-hp, 8.91-cu. in. overhead valve engine puts out high torque at low speeds, so it can handle a variety of terrains.

- HMC Green Machine's new hedge trimmer has a two-cycle, 1.4 hp engine.

HMC reports that the trimmer can handle the day-to-day, high-volume use that landscapers require. Two 30-inch counter-oscillating blades made from carbon steel insure professional users of fast, effortless trimming and shaping with a minimum of maintenance. □

INDUSTRY

Chem companies boost education

WASHINGTON — Representatives of several companies that supply chemicals to the lawn care industry have joined forces to better educate those who use their products.

Delegates of several major chemical companies, working under the auspices of the Pesticide Public Policy Foundation (3PPF), are working with other green industry organizations to create educational materials for chemical applicators.

The coalition's second meeting will be this month.

continued on page 16

TOUGHEST CATS ON TURF.

Pick the Turfcats® model to tame your toughest mowing schedule.

Mowing days go faster and easier when you turn a Turfcats loose. Choose from two models with a wide-track 4-wheel stance and easy-handling power steering: the C417D, powered by a 16.5-hp diesel; and the C420G, with a 21-hp gas engine. Both engines are liquid-cooled for longer life and quieter performance.

A 3-wheel model is also available to get you in and out of the tight spots: the nimble C318G with an 18-hp air-cooled gas engine.

You can feel the extra power and traction on all Turfcats, delivered by a 2-speed limited-slip transaxle, with power for mowing and traction in low range, and quick transport in high range.

On the slopes, Turfcats hold their ground with wider stance and lower center of gravity. Choose a rotary or flail mower from 50- to 60-inches, or the high production 72-inch deep tunnel deck, that moves clippings out

fast for extra mowing capacity without windrowing or clumping.

All Turfcats models are designed to take the work out of mowing, with a single pedal forward/reverse control and foot-operated hydraulic implement lift.

See your Jacobsen dealer today to find out more about the toughest cats on turf. Attractive lease and finance plans available. Jacobsen Division of Textron Inc., Racine, WI 53403.



**JACOBSEN
TEXTRON**

Jacobsen Division of Textron Inc.

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How to keep your acres and acres of earth looking like a little slice of heaven.

Adopt a Mobay fungicide program, and start producing turf that's a cut above.

Start with BAYLETON® Turf and Ornamental Fungicide. It has an unequaled reputation for stopping *dollar spot* while giving you broad spectrum disease control.


In addition, BAYLETON eliminates costly multiple applications. You see, it works systemically, entering the plant and working from the inside. Since BAYLETON won't wash off, it lasts longer.

For *leaf spot*, treat with DYRENE® Turf Fungicide. Quite simply, nothing works better. Plus, the flowable formulation of DYRENE gives you longer residual control than regular contact fungicides. And that adds up to a lower cost per day of control.

Best of all, both BAYLETON and DYRENE have a long history of unmatched performance.

For more information, contact your Mobay distributor or Mobay sales representative. They can set you up with a fungicide program that'll help you keep your acres looking like a little heaven on earth.

Bayleton Dyrene



Treat your fairways with BAYLETON and DYRENE. It keeps your customers from tracking disease up onto your tees and greens, and raises the overall quality of your course.

Apply BAYLETON for broad spectrum control on a wide variety of ornamental plants.

Plant turf varieties that resist diseases in your area. Apply a balanced fertilizer. Aerate, irrigate, and dethatch periodically.

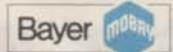


In addition to dollar spot, BAYLETON prevents summer patch, anthracnose, and other major turf diseases.

DYRENE prevents brown patch and leaf spot with excellent residual control.

Mobay Corporation

a Bayer USA INC. COMPANY



Specialty Products Group
Box 4813, Kansas City, MO 64120
816-242-2333

COALITION from page 12 where it's expected to review an educational curriculum proposed by a committee made up of applicators, extension agents, and representatives of the Environmental Protection Agency and U.S. Department of Agriculture. Each company will review the proposed curriculum, add to or subtract from it, and meet again to determine how it will be financed.

When complete, the program will be distributed through the Professional Lawn Care Association of America (PLCAA).

The education program will not become a part of existing certification or licensing programs, says Jim Altemus of Monsanto, a coalition spokesman. "What it is meant to do is to provide a level of education below that which is required for licensing or certification. This is the one that says whomever puts their hands on an applicator hose must have at least minimum education about what they're doing."

Companies within the coalition at presstime include Monsanto, Dow-Elanco, American Cyanamid, Rhone-Poulenc, and Ciba Geigy.

"When the program is finished, it's going to be a measurable improvement—a giant step forward for the industry," says Altemus. "It also says good things about the companies involved, that we're willing to find new ways of accomplishing things."

"We're doing something that benefits society as well as protects our right to do business within a market." □

PEOPLE

McClure named new director of pro lawn care association

Ann McClure has been named executive vice president of the Professional Lawn Care Association of America by its Board of Directors. McClure succeeds **James R. Brooks**, who announced his resignation from the organization last month after serving as executive director and executive vice-president for the last seven years.

McClure was most recently executive administrator for The Irrigation Association. Prior to that, she had been director of meetings for the Associated Landscape Contractors of America.

C. Reed Funk, Ph.D., was presented the annual Distinguished Service Award by **Clayton Yeutter**, U.S. Secretary of Agriculture during ceremonies in Washington, D.C. June 13. Dr. Funk, of the Rutgers University State Agricultural Experiment Station, received the award "for distinguished scientific achievements in turf breeding and outstanding contributions to the turf industry and the general public."

Stan Cichuniec and **Dorothy Borland** were honored by the Rocky Mountain Regional Turfgrass Association. Cichuniec, supervisor at Foothills Metro Recreation and Parks District, received the "Distinguished Service Award." Borland,

owner of The Turf Expert, was selected "Turfgrass Professional of the Year."

J. Landon Reeve IV of Chapel Valley Landscape has been presented a plaque for meritorious service to agriculture by Dr. Francis R. Gouin of the University of Maryland. A University of Maryland graduate, Reeve is a past president of three professional nursery and landscape contractor organizations. He is also an advisory board member for the Cer-



McClure



Funk



Borland



Huff

tified Professional Horticulturist program in Maryland.

Dr. David R. Huff has joined Rutgers University as a Post-Doctorate Fellow under Dr. Funk. The Michigan native will focus on the reproductive biology of Kentucky bluegrass and fine fescue identification. Huff earned his Ph.D. from the University of California/Davis.

Anne Langhenry has joined **LANDSCAPE MANAGEMENT** magazine as Central States Sales Manager. She was previously marketing and promotions manager for Yamica Corp., Exeter, N.H. Ms. Langhenry will be based in LM's Cleveland, Ohio, office.

W.R. Sauey, chairman of Columbia ParCar, was named "Master Entrepre-



Reeve



Langhenry

neur" in a competition sponsored by Ernst & Young, the accounting, tax and consulting firm. Judged by a panel of Wisconsin business persons, Sauey was one of four entrepreneurs honored.

Martha Lindauer has accepted a position with The Irrigation Association as director of communications with emphasis on the association's legislative program. She had been public relations coordinator for the landscape contractor's association. □

Corrections in Seed Pocket Guide

The seed generation and seed tag values chart appearing in the July "Pocket Guide to Turfseed" contained some inconsistencies:

- 1) The chart should have been labelled "Kentucky bluegrass seed generation and seed tag values," and;
- 2) The chart incorrectly

noted that 2.0% *Poa annua* seed is allowed in certified blue tag seed.

LANDSCAPE MANAGEMENT regrets the errors, which also appear in the source chart in "Turf Manager's Handbook" by Dr. W.H. Daniel and Dr. R.P. Freeborg of Purdue University. □

September 4, 1990

7585 Ponce de Leon Circle
Atlanta, Georgia 30340-3119
Tel. (404) 449-6140
Telex: 981360 DEUTZATL
Fax: (404) 840-4244 - ENGINES
(404) 840-4288 - PARTS
(404) 840-4299 - ADM.

To Users of Small Diesel Engines

Ladies and Gentlemen:

Deutz Corporation of Atlanta, Georgia, and Ruggerini Motori S.p.A. of Reggio Emilia, Italy, have reached an agreement of importance to Diesel engine users in North America.

Deutz will market, support and service a number of modern, high-speed models out of the Ruggerini product offering especially selected for the requirements of the North American market. This addition extends Deutz' range downward for substantially increased competitiveness in smaller engines.

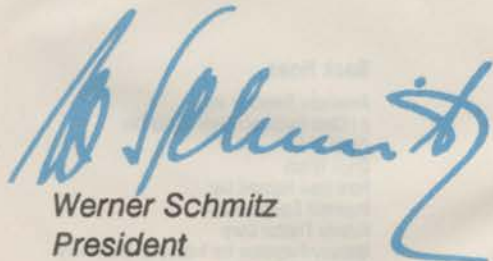
Starting today, the same experienced Deutz crew will offer these engines, product support, engineering and application assistance. Deutz will also provide parts and service availability for Ruggerini engines already operating in North America. We plan to duplicate the track record we have established in the market over the past 30 years.

We would appreciate a chance to tell you what we have to offer in the 4 to 30 HP range.

Thank you.

Sincerely,

DEUTZ CORPORATION



Werner Schmitz
President

P.S.: Fuel efficiency is in again!



LANDSCAPE MANAGEMENT

BUYER'S GUIDE

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CHEMICALS	56		



1. Equipment

Aerators, Aquatic

Air-O-Lator Corp
Applied Biochemists Inc
Classen Mfg Inc
Giant-Vac Mfg Inc
LESCO Inc
Otterbine/Barebo Inc

Aerators, Soil

Aer-Way
BEFCO Inc
Brinly-Hardy Co
Cushman Inc
Dandi Mfg Co
Dedoes Industries Inc
Deere & Co
Feldmann Engineering & Mfg Co
Gandy Co
Green Care Intl
Green Machine Div of HMC
Hahn Inc
Hendrix & Dail Inc

Hoffco Inc
Jacobsen Div Textron
JISCO
F D Kees Mfg Co
Lawrence Inc
LESCO Inc
Mathews Co
Moyer & Son Inc
Olathe Mfg Inc
Precision Products Inc
Professional Tree & Turf Equipment
Sensation Div Gilson Bros
Steiner Turf Equipment Inc
Tanaka Ltd
Terracare Products Co
Toro Co Commercial Products Div
Toro Co Irrigation Div
Verti-Drain

Aerial Lifts

Arborchem Products Co
Hi-Ranger Inc
Promark Products Inc
Reach-All Inc

Anchors, Earth

A B Chance Co
Foresight Products Inc
Hoffco Inc
Seymour Mfg Co

Aquatic Weed Harvesters

Air-Lec Industries Inc
Hockney Underwater Weed Cutter Co

Augers

Ariens Co
Ditch Witch

Feldmann Engineering & Mfg Co
Hoffco Inc
JISCO
Johnson's Industrial Supply Co
Little Beaver Inc
Melroe Co business unit of Clark Equip
Professional Tree & Turf Equipment
Seymour Mfg Co
Solo Inc
Tanaka Ltd

Backfillers

Bush Hog Div Allied Products Corp
Guest Industries Inc
Ingersoll Equipment Co
Melroe Co business unit of Clark Equip

Back Hoes

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J I Case Outdoor Power Equip Div
Deere & Co
Ditch Witch
Ford New Holland Inc
Ingersoll Equipment Co
Kubota Tractor Corp
Massey-Ferguson Inc Industrial Machinery
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Benches

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Atlantic Construction Fabrics Inc
Outdoor Products & Supply Inc
Playworld Systems
Standard Golf Co

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The new Cushman GT-1 utility vehicle will outperform and outlast any converted golf cart on the market. Its frame and chassis are stronger and more durable. You'll find a bed

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Equipment

continued

Blades, Mower, etc

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Bush Hog Div Allied Products Corp
Howard S Crane Inc
Cushman Inc
Dandi Mfg Co
Deere & Co
Deutz-Allis Corp
Excel Industries Inc
Kubota Tractor Corp
Lawn-Boy Inc
LESCO Inc
Massey-Ferguson Inc Industrial Machinery
Omark Industries
Power Lawnmower Parts Inc
Scag Power Equipment Inc

Blades, Dozer/Scraper/Snow

American Trencher Inc
Ariens Co
Bolens Corp
Bush Hog Div Allied Products Corp
J I Case Outdoor Power Equip Div
Howard S Crane Inc
Deere & Co
Deutz-Allis Corp
Excel Industries Inc
Grazer Div M & W Gear Co
Guest Industries Inc
Kubota Tractor Corp
Lawrence Inc
Massey-Ferguson Inc Industrial Machinery
Melroe Co business unit of Clark Equip
Simplicity Mfg Inc
Steiner Turf Equipment Inc
Waldon Inc
Westendorf Mfg Co
Wheel Horse Products Inc
Woods Div Hesston Co

Bleachers

American Playground Corp

Blowers

Ariens Co
Atwater Strong Inc
Billy Goat Industries
Bunton Co
Cushman Inc
Deere & Co
DOB Distributors Inc
Excel Industries Inc
Finn Corp
Giant-Vac Mfg Inc
Green Machine Div of HMC
Hoffco Inc
Homelite Div Textron Inc
Kubota Tractor Corp
Lawrence Inc
LESCO Inc
Maruyama US Inc
Olathe Mfg Inc
Roto-Hoe Co
Salsco Inc
Shindaiwa Inc
Snapper Power Equipment
Solo Inc
Steiner Turf Equipment Inc
Tanaka Ltd
Westheffer Co
Yard Vac Products Inc

Bridges

Continental Mfg
Western Wood Structures Inc

Brush Cutters, Hand Held

Ariens Co
Bunton Co
Deere & Co
DOB Distributors Inc
Green Machine Div of HMC
Hoffco Inc
Homelite Div Textron Inc
LESCO Inc
Maibo Inc
Maruyama US Inc
Seymour Mfg Co
Shindaiwa Inc
Seymour Smith & Son Inc
Snapper Power Equipment
Solo Inc
Tanaka Ltd
Westheffer Co
Yazoo Mfg Co

Brush Cutters, Right-of-Way

Bush Hog Div Allied Products Corp
Howard S Crane Inc
Ingersoll Equipment Co
Kinco Mfg
Kubota Tractor Corp
Mathews Co
R L Parsons & Son ECI AKA The Micro-Mower Co
Rousseau
Seymour Smith & Son Inc
Woods Div Hesston Co

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Carts, Lawn

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Falkenberg Inc
Gravely International Inc
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Kadco USA



Precision Products Inc
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Westheffer Co
Wheel Horse Products Inc

Chain Saws

Ariens Co
Fairmont Hydraulics Div Fairmont Railway Motors-Harsco Corp

Green Machine Div of HMC
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Maibo Inc
Progressive Power Tools Corp
Shindaiwa Inc
Solo Inc
Stanley Hydraulic Tools
Tanaka Ltd

Chain Saw Parts

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Power Lawnmower Parts Inc
Solo Inc
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Chippers

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Badger Chipper Co
Chipmore Mfg Co
Howard S Crane Inc
Duerr Inc
Heckendorn Mfg Co
Lindig Mfg Corp
Olathe Mfg Inc
Professional Tree & Turf Equipment
Promark Products Inc
Roto-Hoe Co
Vermeer Mfg Co

Cultivators

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BEFCO Inc
Bolens Corp
Bush Hog Div Allied Products Corp
Howard S Crane Inc
Deere & Co
DOB Distributors Inc
Feldmann Engineering & Mfg Co
Gravely International Inc
Green Machine Div of HMC
Hoffco Inc
Homelite Div Textron Inc
Solo Inc
Tanaka Ltd

Dethatchers


Ariens Co
BlueBird International Inc
Brinly-Hardy Co
Brouwer Turf Equipment Ltd
Bunton Co
J I Case Outdoor Power Equip Div
Cushman Inc
Deere & Co
Deutz-Allis Corp
Exmark Mfg Co
Fuerst Brothers Inc
Goossen Industries
Gravely International Inc
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Jacobsen Div Textron
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Three basic versions of the FOCS are available:

- 2 cylinder, 600 cm³, 15HP
- 3 cylinder, 900 cm³, 22HP
- 4 cylinder, 1200 cm³, 30HP

Infinite configuration possibilities, and "total solutions" assistance from our application engineering team assure you of being one step ahead with FOCS. Lombardini offers performance like never before. To explore the future, give us a call today.

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Lawrenceville, GA 30245
(404) 963-4881 FAX (404) 995-1107



**LOMBARDINI
USA, INC.**

Disposal of grass clippings may soon be illegal.

It's true. The landscape maintenance profession has come under the scrutiny of lawmakers and environmentalists. Several states have passed laws against dumping grass in the local landfill and by 1995 nearly all states will have some form of legislation governing the disposal of lawn wastes.

Shred the evidence

Don't be left holding the bag. Now you can shred your clippings as you mow with the Hustler Turbo Shredder™ rotary mower from Excel. The Turbo Shredder reduces clippings to tiny particles which fall quickly, harmlessly, (and legally) back to the soil surface. No one will know you left them behind to decompose naturally.

The Case for Shredding

When you shred clippings, you help the turf recover valuable nutrients that would ordinarily be hauled to the landfill. University studies have shown that leaving

the clippings can eliminate one fertilizer application per year. You also save the cost of the labor to put it on.

If you shred your clippings instead of bagging, you can slash your time and labor by 50%! Say good-bye to raking, bagging, hauling and dumping. You'll have more time to pursue new customers or tackle other projects.



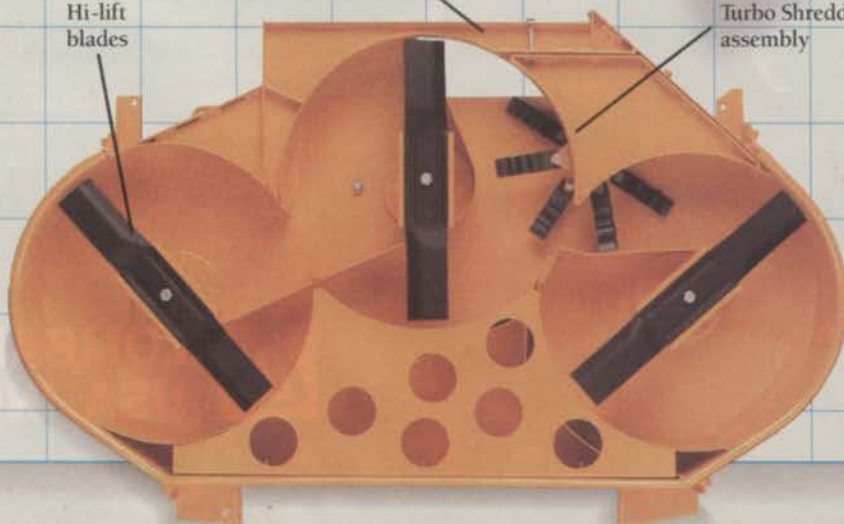
The only complete maintenance system in its class—equip your Hustler with the 8-bushel BAC-PAC and side-mounted edger for fast clean-up and a professional finish.

The unique design* on the eight double-edged shredder blades is the key to Hustler's superior finish. (shown larger than actual size.)
*Patent pending.

Discharge area

Hi-lift blades

Turbo Shredder assembly



A total mowing system to help you beat "the System"

The Hustler Turbo Shredder is a complete turf maintenance system. A single operator can mow, edge and clean up in less time than it takes a two man crew with 48" walk-behinds and a power edger. The Hustler 251K and 260K offer operator comfort features like a high

Excel's Secret Weapon against grass bags—Hi-lift blades cut the grass and direct the clippings into the Turbo Shredder assembly where they are re-cut again and again.

back seat and simple twin lever controls.

You can choose between 18 or 20 horsepower Kohler Magnum engines with either

the 51" or 60" Shredder Deck. Add to your productivity with the side-mounted edger attachment and the 8-bushel

BAC-PAC™ catcher. Both can be added or removed in just seconds without tools.

For quick cutting height adjustments, you can order an optional hydraulic lift that changes the mowing height right from the driver's seat.



The Hustler Turbo Shredder deck, in 51" or 60" cutting widths, is the innovative answer to your clippings disposal problems.

Justice prevails

With Excel's easy lease and purchase options, it would be a crime not to get your own Turbo Shredder. Contact your local Hustler dealer or call Excel for the name of the dealer near you.

Excel Hustler...Still Out Front!

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(In Kansas and Canada 316-327-4911)

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Hesston, KS 67062-2097



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Unlike grass cut with a conventional rotary mower, shredded clippings work their way down to the soil surface for rapid decomposition. (All clippings shown actual size on a 1/2" grid.)

Turbo Shredder clippings

Conventional clippings

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continued

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Komatsu Dresser

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Warren's Turf Nursery Inc

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Tanaka Ltd

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H D Hudson Mfg Co
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Curb King
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Jacobsen Div Textron
LESCO Inc
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Snapper Power Equipment
Steiner Turf Equipment Inc
Tanaka Ltd
Turfco Mfg Inc
Wheel Horse Products Inc

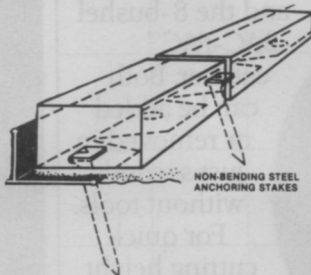
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Villa Park, Illinois 60181

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Kohler Co

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engines**

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Power Lawnmower Parts Inc
Professional Tree & Turf Equipment
Strong Enterprises Inc
Tecumseh Products Co
Teledyne Total Power
Wheel Horse Products Inc

Engines, Diesel

Deere & Co
Ford New Holland Inc
Honda Power Equipment
Kawasaki Motors Corp Engine Div
Kubota Tractor Corp
LESCO Inc
Lombardini USA Inc
Professional Tree & Turf Equipment
Strong Enterprises Inc
Tecumseh Products Co
Teledyne Total Power
Tufflex Mfg Co
Westheffer Co

Engines, Gas

Briggs & Stratton Corp
Deere & Co
DOB Distributors Inc

Homelite Div Textron Inc
Kohler Co
LESCO Inc
Onan Corp

Onan's Performer series of two cylinder engines includes 16, 18, 20 and 24 HP horizontal shaft models and 16, 18, and 20 HP vertical shaft models. Features include electronic ignition, solenoid shift starter and full pressure lubrication.

Onan recently expanded its engine line with the addition of the single cylinder Elite series. The 12.5 HP vertical shaft model is currently in production and future models will include 5-12.5 HP horizontal and vertical crankshaft configurations.

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(612) 574-5000

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Teledyne Total Power
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Eberhart Steel Products Plastic Div
Hydro-Turf & Assoc
Presto Products Co

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Belton Industries Inc
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Dewitt Co
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Jonathan Green Inc
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Hydro-Turf & Assoc
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Phillips Fibers Corp
Proseed (USA) Inc
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Fertilizer Injectors

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Inject-O-Meter Mfg Co
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Nature's Touch Div of Agro Chem Inc
Professional Tree & Turf Equipment
Robco USA Inc
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Claude Laval Corp
Morie Co

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continued

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Grass Pavers

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Encap Products Co
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Friend Mfg Corp
Hahn Inc
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LESCO Inc
Maruyama US Inc
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Grasshopper cuts mowing time with high productivity, agility, instinctively natural controls and rugged durability.

Grasshopper is designed to put you outfront in the daily race against the clock. By combining agility, efficiency, operational ease and rugged reliability, Grasshopper cuts labor costs, downtime, and most importantly, the time you spend on each job.

Today's Gemini 700 Series Grasshoppers are the result of two decades of constant design advancements and refinements. The Gemini direct drive dual-hydrostatic system, while increasing mowing capabilities, also reduces maintenance and extends service life.

Dual-lever steering with automatic neutral-return safety puts total command of mowing at your fingertips. Zero-turning-radius and outfront deck design deliver superior visibility, trim capability and maneuverability. Grasshopper dealers offer strong support and the choice of six versatile models, 11 to 21 hp, deck options from 35" to 72", plus several "capability-enhancing" attachments. So, if you're not using Grasshopper now, it's about time, because you're probably spending too much time mowing.

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One Grasshopper Trail
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FAX 316-345-2301



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GRA-3-90

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Aquapore Moisture Systems
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Bloch & Co
Buckner Inc
Gardenamerica
Hunter Industries
Kalo Inc
Claude Laval Corp
LESCO Inc
Moisture Systems Professional Irrigation Div
Motorola Inc
Outdoor Products & Supply Inc
Progressive Electronics Inc
Rain Bird Sprinkler Mfg

Standard Oil Engineered Materials Co
Submatic Irrigation Systems
Toro Co Commercial Products Div
Toro Co Irrigation Div
Weather-matic

Lighting Systems

LESCO Inc
Rain Bird Sprinkler Mfg

Litter Receptacles

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Outdoor Products & Supply Inc
Playworld Systems
Standard Golf Co

Loaders

American Trencher Inc
Billy Goat Industries
Bush Hog Div Allied Products Corp
J I Case Outdoor Power Equip Div
Howard S Crane Inc
Deere & Co
Deutz-Allis Corp
Ditch Witch
Engineering Products Co
Giant-Vac Mfg Inc
Ingersoll Equipment Co
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Melroe Co business unit of Clark Equip
Olathe Mfg Inc
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Thomas Equipment Ltd
Waldon Inc
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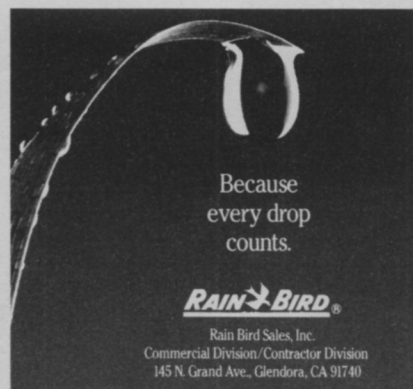
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Melcher Mfg Co
Salsco Inc

Log Splitters

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J I Case Outdoor Power Equip Div
Duerr Inc
Ingersoll Equipment Co
Vermeer Mfg Co

Markers, Field

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Gandy Co
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Imler Industries Inc
LESCO Inc
Nature's Touch Div of Agro Chem Inc
Strong Enterprises Inc
Tuflex Mfg Co

Mist Blowers

Agrotec Inc
Arborchem Products Co
Encap Products Co
Friend Mfg Corp
H D Hudson Mfg Co
Maruyama US Inc
Professional Tree & Turf Equipment
Solo Inc
Strong Enterprises Inc
Trebort Corp
Westheffer Co

Moisture Sensors

Glen Hilton Products
LESCO Inc
Spectrum Technologies Inc
Westheffer Co



THE MAZDA WARRANTY: DESIGNED TO LAST THE LIFE OF YOUR FLEET.

KEEPING COSTS DOWN—IT'S CRITICAL TO YOUR SUCCESS AS A FLEET OPERATOR. THAT'S WHY WE GIVE YOU THE MAZDA WARRANTY. BECAUSE EVEN WHEN YOU BUY A TRUCK AS RELIABLE AS OURS, THE FEWER REPAIRS YOU PAY FOR, THE BETTER YOUR BOTTOM LINE.

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AT (714) 727-6453. WE'LL SEND YOU COMPLETE INFORMATION ON AMERICA'S MOST TROUBLE-FREE COMPACT TRUCK,* INCLUDING A QUICK REFERENCE GUIDE TO THE MAZDA WARRANTY. THEN YOU CAN READ ALL ABOUT OUR TRUCKS, AND THE BEST BASIC WARRANTY IN THE COMPACT TRUCK BUSINESS.


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mazda


IT JUST FEELS RIGHT.™

This Time, We Did Competition, We Out


To make a dramatic turnaround in your productivity, put yourself behind the wheel of the machine that outmaneuvered them all: The new Groundsmaster® 220-D or the new gas-powered 224 from Toro. No other out-front rotary mowers are as maneuverable, as effortless to operate or provide as much trim productivity.



Fourlink power steering is your link to unmatched maneuverability. Now operators can make sharper, easier turns with less fatigue. This makes trimming around any obstacle quick and almost effortless.



To give you even more cutting control, Groundsmasters feature a single knob deck-to-tractor weight transfer system. A twist of the wrist is all it takes to balance cutting unit flotation to height of cut and traction needs. The result is better traction and better flotation without scalping.



When it comes to engine size, Toro gives you the power of choice. The new Groundsmaster 220-D features a 20 hp liquid-cooled, 3-cylinder Mitsubishi diesel engine. The new Groundsmaster 224 gives you the same engine in a gas model, providing you with the durability diesels are known for, but with more power. Both give you all the speed and power needed for the most demanding jobs.

The Groundsmaster 220 also is available with a 20 hp air-cooled gas engine.



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With all these performance features, it's obvious why the new Groundsmaster 220-D and 224 are so popular. And why Toro is the leader in out-front riding rotary mowers. To request a demonstration, call your local Toro distributor or contact Toro at the address below.



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continued

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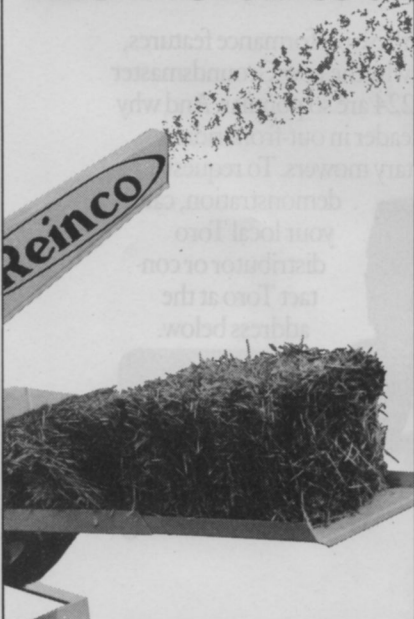
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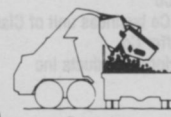
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Wheel Horse Products Inc

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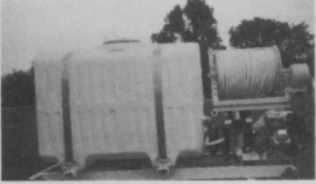
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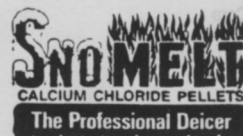
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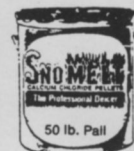
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612-633-3072

Little Beaver Inc
PO Box 840
Livingston TX 77351
409-327-3121

Locke Mfg Inc
2133 Mountain Industry Blvd
Tucker GA 30084
404-939-1505

★Lombardini USA Inc
601 Old Norcross Place Ste E
Lawrenceville GA 30245
404-995-1007
404-963-4881
Fax 404-995-1107

Magic Circle Corp
RR 1 Box 345
Coatesville IN 46121
317-246-6845

Magline Inc
503 Mercer St
Pinconning MI 48605
517-879-2411

Maibo Inc
5569 Hwy 11 W
Kingsport TN 37660
800-331-2306

Mar-Mac Wire Inc
Hwy One N
PO Box 690
McBee SC 29101
803-335-5000

Maruyama US Inc
15436 NE 95 St
Redmond WA 98052
206-885-0811

Massey-Ferguson Inc
Industrial Machinery
1700 Belle Meade Court
Lawrenceville GA 30243
404-822-3078

Master Mfg Co
119 Main St
PO Box 3806
Sioux City IA 51102
712-258-0108

Mathews Co
500 Industrial Ave
Crystal Lake IL 60014
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
800-541-4227

Melex USA Inc
1221 Front St
Raleigh NC 27609
919-828-7645

Melroe Co
business unit of Clark Equip
PO Box 6019
 Fargo ND 58108-6019
701-241-8700

Micro-Trak Systems Inc
111 E Le Ray Ave
Eagle Lake MN 56024
507-257-3600

Mid Dakota Corp
Garrison Industrial Park
PO Box 728
Garrison ND 58540
701-337-5619

Middlesworth Engineering & Mfg Inc
1050E 200N
PO Box 165
Greentown IN 46936
317-628-2230

3M Occupational Health & Environmental Safety Div
Bldg 220-3E-04
3M Center
St Paul MN 55144-1000
800-666-6477

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Industrial Vehicles Div
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Cypress CA 90630
714-372-6424
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- Capacity — 90 amperes at 20% duty cycle. Built-in gas solenoid so it handles a wide variety of wire sizes and gas shielded wires.
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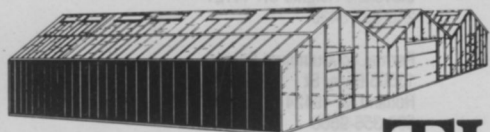
Free literature. Ask your Miller distributor in the Yellow Pages: "Welding Equipment & Supplies." Miller Electric Mfg. Co., P.O. Box 1079, Appleton, WI 54912.

A Miller Group Ltd. Company

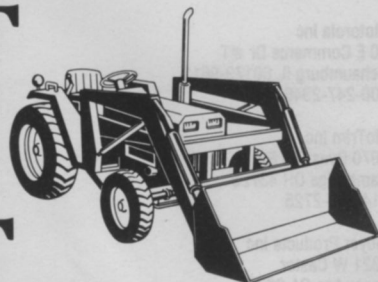


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314-694-1000
800-323-1421

Morie Co
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Millville NJ 08332
609-327-4500
800-257-7034

Motorola Inc
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Schaumburg IL 60173-9613
800-247-2346

MoTrim Inc
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Cambridge OH 43725
614-439-2725

Moyer Products Inc
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Santa Ana CA 92704
714-549-2871

Moyer & Son Inc
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Marion OH 43302
614-382-5701

National Mower Co
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612-646-4079

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Franklin Park IL 60131
312-455-6900

Nissan Motor Corp USA
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Carson CA 90248-4504
213-719-5743

Noland Car Co
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Edgewater FL 32032-0190
904-427-9645

North American Green Inc
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Evansville IN 47711
812-867-6632

★ Olathe Mfg Inc
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Industrial Airport KS 66031
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Fax 913-764-1473

Oly-Ola Sales Inc
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Villa Park IL 60181
312-833-3033
800-EDGINGS
Fax 312-833-0816

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612-574-5000

Otterbine/Barebo Inc
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Emmaus PA 18049
215-965-6990

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216-587-5438

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Precision Products Inc
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217-528-1311

Presto Products Co
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Omark Industries
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Portland OR 97222
503-653-8881

Onan Corp
1400 73 Ave NE

Circle No. 125 on Reader Inquiry Card

Equipment Companies

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Progressive Electronics Inc
325 S El Dorado
Mesa AZ 85202
602-966-2931

Progressive Power Tools Corp
303 N Rose St, Ste 304
Kalamazoo MI 49007
800-635-5465
Fax 616-342-0517

Promark Products Inc
330 Ninth Ave
City of Industry CA 91746
818-961-9783

Proseed (USA) Inc
1800 IH 35 S
PO Box 1250
San Marcos TX 78667
512-392-1900

PRSM Inc
882 S Matlack St Unit E
West Chester PA 19382
215-430-3960

PSB Co
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Columbus OH 43216
614-228-5781

Rain Bird Sprinkler Mfg
145 N Grand Ave
Glendora CA 91740
818-963-9311

★ Ransomes Inc
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Johnson Creek WI 53038
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Raven Industries Inc
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Sioux Falls SD 57102
605-336-2750

Ravens Metal Products
Trallite Div
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Parkersburg WV 26102-1168
304-275-4247
Fax 304-275-4368

Rayco Mfg Inc
6822 Lincoln Way E
Wooster OH 44691
800-392-2686
800-392-2687(OH)
Fax 216-264-3697

Raymond Corp
S Canal St
Greene NY 13778
800-235-7200

Reach-All Inc
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Duluth MN 55816
218-722-9200

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Hancock Blvd & Gerry St
Reading PA 19611
215-775-3301

Reemay Inc
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Old Hickory TN 37138
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Top dressing **levels existing turf** on athletic fields while stimulating growth and improving soil conditions. Repetitive top dressing **fills in the low spots** and also promotes the **decomposition of thatch**.



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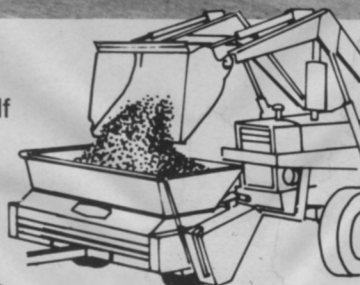
■ Top dress an athletic field in under 2 hours

■ 18.3 cubic feet hopper capacity

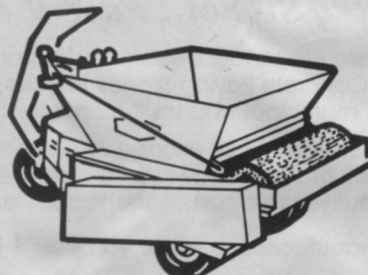
■ Top dress at up to 8 miles/hour

■ Spreading width of 60"

■ Ground driven no engine to maintain



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Telex 5106013762

TURFCO

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520 North Ave
PO Box 512
Plainfield NJ 07060
800-526-7687

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800-553-2404

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800-825-7622
Fax 415-827-0478

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800-752-7673
215-489-1400(PA)

Roto-Hoe Co
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216-564-2294

Rousseau
8433 Mid County Ind
St Louis MO 63114
314-426-7377

Royalgard Products Co
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2727 Paces Ferry Rd NW
Atlanta GA 30339
404-333-9067

Salsco Inc
105 School House Rd
Cheshire CT 06410
203-271-1682

Sario Power Mowers Inc
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Fort Myers FL 33902
813-332-1955

Scag Power Equipment Inc
1000 Metalcraft Dr
Mayville WI 53050
414-387-0100

★O M Scott & Sons Co
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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

Sensation
Div Gilson Bros
Cty Trunk PP
PO Box 152
Plymouth WI 53073
414-893-1011

Seymour Mfg Co
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Seymour IN 47274
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Shindaiwa Inc
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Tualatin OR 97062
503-692-3070

Simplicity Mfg Inc
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Port Washington WI 53074
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D B Smith & Co
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315-735-5223

Smith Precision
1299 Lawrence Dr
Newbury Park CA 91320
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804-245-4228

Southern Mill Creek Products Co
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Plainfield IL 60544
800-248-8873

Spraying Devices Inc
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Visalia CA 93278
209-651-1306

Spraying Systems Co
North Ave
Wheaton IL 60188
312-665-5000

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
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

Submatic Irrigation Systems
PO Box 246
Lubbock TX 79408
806-747-9000

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 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

Teledyne Princeton
955 W Walnut St
Canal Winchester OH 43110
614-837-9096

Teledyne Total Power
3409 Democrat Rd
Memphis TN 38118
901-365-3600

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

Terracare Products Co
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Pardeeville WI 53954
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Fax 608-429-2889

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Bloomington MN 55420
612-888-8801

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

Toyota Industrial Equipment
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Torrance CA 90509
213-618-4000

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

Trebor Corp
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Forest Park GA 30050
404-366-0957

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

Tuflex Mfg Co
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Pompano Beach FL 33060
305-785-6402

★Turco Mfg Inc
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Minneapolis MN 55412-5688
612-588-0741

Vaughan's Seed Co
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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

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Scranton PA 18503
717-961-6120

Waldon Inc
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Fairview OK 73737
405-227-3711

★Walker Mfg Co
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Fax 800-777-0356

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333 Anthony Trail
Northbrook IL 60065
708-498-0800

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PO Box 459
Suisun City CA 94585
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Elkhart IN 46515
219-264-9661
800-348-7553

Westendorf Mfg Co
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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
800-332-0003(KS)
800-362-3110
Fax 913-843-4486

Wheel Horse Products Inc
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South Bend IN 46614
219-291-3112

Wheel Spray Corp
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Delafield WI 53018
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Woodstream Corp
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"But with Surflan, the job took only

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"Surflan also took care of our oxalis and chickweed. And many other problem weeds, too. For almost eight months."

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Elanco Products Company
A Division of Eli Lilly and Company
Lilly Corporate Center
Dept. EM-455, Indianapolis, IN 46285, U.S.A.
Surflan®—(oryzalin, Elanco)



Circle No. 112 on Reader Inquiry Card

"Are you kidding? Spray herbicide over the top of my flowers?"

Surflan® proved I could!"

Cynthia Harper
Color Burst, Atlanta, Ga.

Ritz-Carlton, Buckhead
Atlanta, Georgia



continued



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.

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- **Easy to use**, by just pouring.
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Adjuvant/Carrier

Arborchem Products Co
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DowElanco
Improve
Elanco Products Co
Improve
Fermenta ASC Corp
(Fatty amine ethoxylate) Frigate
Jonathan Green Inc
(surfactant-wetting agent) Aqua-Gro S & G
Kalo Inc
Regulaid
LESCO Inc
LESCO Spreader Sticker; LESCO-WET
Moyer Products Inc
(Alicarylpoloxyethylene ether) Spray Film B
Nature's Touch Div of Agro Chem Inc
(alanine, aspartic acid, glutamic, acid cysteine & other proteins) Save A Tree Drought
Necessary Trading Co
(non-ionic surfactant) Spray Enhancer
Precision Laboratories Inc
Pen-A-Trate

Southern Mill Creek Products Co
SMCP Spreader Sticker
Spectrum Technologies Inc
(buffering/wetting agent) Adjust; Spraytrol
UAP Special Products Inc
Activator 90
Uniroyal Chemical World Headquarters
Activate
Valent USA Corp
X-77

Algaecide

Applied Biochemists Inc
(Chelated Copper) Cutrine-Plus, Cutrine-Plus Granular
Great Lakes Biochemical Co
(Chelated Copper Liquid) Algimycin PLL-C; (Chelated Copper Tablet) Slow Release Algimycin PLL-C; (wetttable powder) Algimycin GLB-XII
LESCO Inc
(Elemental copper) Lescocide-Plus
Nacco Tyfo
NaccoSan B-60
Southern Mill Creek Products Co
A + V70 Plus
UAP Special Products Inc

Antitranspirant

Aquatrols
(paraffin wax emulsion) FoliCote
W A Cleary Chemical Corp
Cleary's Clearspray
Green Pro Services
(pine tar & Synthetics) Vita Coat
Nature's Touch Div of Agro Chem Inc
(concentrated cellular gums) Nature's Touch Leaf Coat & Leaf Coat Clear; (cellular gums with non fade dyes) Nature's Touch Leaf Coat Green
PBI-Gordon Corp
(Polyethylenes/Polyturpines) Transfilm
Precision Laboratories Inc
Preserve
UAP Special Products Inc
Blanket; Nufilm
Wilt-Pruf Products Inc
(di-1-p-Menthene) Wilt-Pruf



Bactericide

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

Biological Control

Burlington Scientific Corp
(Cytokinins, Humates) Speed Feed Turf Elixir; Speed Feed Turfgrass Formula
Emerald Isle Ltd
(liquisied seaplan extract) PanaSea
Green Pro Services
(Parasitic Nematodes) Scanmask
Igene Biotechnology Inc
(Chitin Protein Complex) ClandoSan(R)

KLM Bio Systems Inc
Bio Groundskeeper; Bio Groundskeeper
Necessary Trading Co
(B.t) Dipel; (potassium salts of fatty acids) Safer
Insecticide Conc; (beneficial nematode) Bio Safe
Sandoz Crop Protection
Pentac Aquaflo
UAP Special Products Inc
Dipel; Safer

Colorant

Arborchem Products Co
(blue dye) Hi-Lite; (blue colorant) Bullseye
Becker-Underwood Inc
TURF MARK; (mulch colorant) Mulch Magic; (turf colorant) Green Lawnger
W A Cleary Chemical Corp
Cleary Tree Greenzit; Cleary Grass Greenzit
Grace Sierra
Vitalon; Auragreen
Jonathan Green Inc
(blue spray colorant) Dyon; (brown mulch dye) Barl Renewer
Gustafson Inc
Gustafson Pro-ized
LESCO Inc
(Blue indicator dye) LESCO Tracker; LESCO-Nu-Mulch
Milliken Chemical
Blazon

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Nacco Tyfo
Super Tracer Dye
Nature's Touch Div of Agro Chem Inc
(cellular gums w/ latex base + non fade color)
Natures Touch Green Blades
Precision Laboratories Inc
Signal
Royalgard Products Co
Royalgreen; Royalblue
Southern Mill Creek Products Co
Blazon; Aquashade
Spectrum Technologies Inc
Sprayguide
Standard Tar Products Co
(blend of resins & pigments) Bark Renewer
UAP Special Products Inc
Turf Mark; Blazon
Warren K Lefeld
Signal, Tracer; True Blue

Defoamer

Applied Biochemists Inc
(Silicone) Foamtrine
Arborchem Products Co
(10% Silicone) Arborchem Defoamer
W A Cleary Chemical Corp
Cleary Defoamer
Finn Corp
(silica-in-silicon oil compound) Foam Chek
Gustafson Inc
Gustafson Slurry Defoamer
Kalo Inc
Defoamer & Anti-Foam
LESCO Inc
(Silicone) LESCO Defoamer
Nacco Tyfo
Antifoam
Precision Laboratories Inc
Knockdown



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Chemicals

continued

Royalgard Products Co
(silicone based) De-Foamer
UAP Special Products Inc
Fighter F
Warren K Lerland
Knockdown

Drift Retardant

Arborchem Products Co
(Polymer) 38-F; (dry polymer) 41-A
W A Cleary Chemical Corp
Cleary
Nature's Touch Div of Agro Chem Inc
(Heavy cellulose thickness) Natures Touch No Drift
Precision Laboratories Inc
Direct
Southern Mill Creek Products Co
Nalco-Trol; Nalco-Trol II
Spectrum Technologies Inc
Spraytrol
UAP Special Products Inc
Chemtrol
Warren K Lerland
Direct

Fertilizers, Micronutrients

Aglukon Agri-Products
(nitrogen, calcium, magnesium, micns) Wuxal
Suspension
W A Cleary Chemical Corp
Cleary
Doggett Corp
(chelated iron, managanese magnesium, zinc &
copper) Doggett Micronutrients



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Contact: Roger D. Mellick, Vice President

Jonathan Green Inc
(Mg, S, Bn, Cu, Fe, Mn, Zn, Mb) THIS Micronutrient
Green Pro Services
(chelated nutrients) Vita-Green

Growth Products Ltd
(Methylene diurea) Nitro-26 CRN; (EDTA & citric acid
chelates) Micrel



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LESCO Palm Tree & Tropical Ornamental
Micronutrients; LESCO Chelated Micro Mix; LESCO
Chelated Iron Plus w/Zinc; LESCO Chelated Iron Plus;
LESCO Iron Plus

PBI-Gordon Corp
(6% iron, sulfur, urea) Ferromec; (6% iron, sulfur, urea
(amine compatible)) Ferromec AC; (6% iron plus
manganese) Ferromec M; (6% iron plus manganese
amine compatible) Ferromec MAC; (6% iron, sulfur,
urea plus manganese & zinc) Ferromec MZ

Plant Food Co

Blu-Gro

R G B Laboratories Inc

((0-4-4) sulfur, magnesium, boron, iron, manganese,
zinc) Agri-Plex For-X; ((0-5-8) 8% chelated iron)
Agri-Plex Fe 8%; (8% chelated iron plus 8% sulfur)
Lawn Plex

Ruffin Inc

(all micronutrients from the sulfate form) Ruffin Tuff
(Chelated) Fe-ZN-Cu-Mn-Mg-Ca

Triazone Div Arcadian Corp

(triazone) N-Sure Trisert; NZN, NMG, NFE

Fertilizer, Tree

Andersons (The)

CoRoN Corp

(amine-modified polymethylene urea 28-0-0, 70%
CRN) CoRoN controlled release nitrogen

CoRoN
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Creative Sales Inc

(N-P-K, Fe, Mn & Zn) MEDICAP Systemic tree
implants

Doggett Corp

(NPK slow release/hydraulic inject) XL-Injecto Feed
32-7-7; (NPK slow release/hydraulic inject) Evergreen
Spec 30-7-10

DOTS (Distributors Own Turf Supplies)

(RZP 34-3-7) DOTS

Garfield Williamson Inc Proform Turf Products Div
(release nitrogen added micronutrients) PROFORM
12-24-12 Winterizer

Grace Sierra

Agriform

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

Jonathan Green Inc

(34-3-7 w/powder blue nitro) Lawn Care & Root
Feeding

Green Pro Services

(NPK, Humates) Vita Tree/Shrub

Haifa Chemicals Ltd Trans-Resources Chemical Div
(potassium nitrate 13-0-46) K-Power

Hawkeye Chemical Co

(controlled release liquid nitrogen) Formolene LU
Howard Johnson Ent Inc
(RZP)

LaRoche Industries Inc

Vertagreen; Soilife; Supreme Green

Lebanon Turf Products Div Lebanon Chemical Corp

Lebanon; Turfmaster

LESCO Inc

LESCO 16-10-9 Tree Stakes; LESCO 8-10-10 "Hi"

Trace Element Tree Stakes; LESCO Arbor Green

J J Mauget Co

(Chelated Ag Minerals & NPK) Stemix; (Sulfates &
Nitrates) Inject-A-Min Fe-Zn, Inject-A-Min Mn

Moyer Products Inc

(20-9-9) Super Blend; (20-20-20) Verdisol; (32-10-10,
12-26-26) Four Seasons

Moyer & Son Inc

(Irea, Methylene ureas, polyphosphates Muriate of
potash) Arborflo; (urea, polyphosphates, muriate of
potash) Rootflo

Na-Churs Plant Food Co

(nitrogen & P & K) Na-Chures Liquid Fertilizer 15-3-4
& 21-3-4; (liquid nitrogen) CoRoN 28-0-0

Nature's Touch Div of Agro Chem Inc

(natural vegetative extract base blended with primary,
secondary micronutrients) TES (Nature's Touch)

NOR-AM Chemical Co

(Ureaform) NitroForm

Par Ex

(Isobutylidene Diurea) Woodace

Plant Food Co

Liqua Form; PFC's

Plant Marvel Laboratories Inc

(tree & shrub special 25-15-10) Plant Marvel

Ringer Corp

(natural organic fertilizer) Flower/Foliage 8-6-5

Roots Inc

(marine algae extract, humic acid, metabolizers, co-
enzymes) Roots

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for all turfgrass and plants)

Ruffin Inc

(FeSo4) Ruffin Tuff Chelated Iron Granules

Southern Mill Creek Products Co

Nutrex 20-20-20

Sustane Corp

(dry organic granular compost turkey litter) Sustane

UAP Special Products Inc

NuLeaf

Uniroyal Chemical World Headquarters

(Foliar Nutrients) Nutra-Phos, Sorba-Spray

Vigoro Industries Inc

Woodace; Par Ex

Fertilizer, Turf

Andersons (The)

Tree Time; Professional Custom Mix; Break-Thru

**The
Andersons**

W A Cleary Chemical Corp
Cleary Flut 18-0-0, 10-0-10, 16-2-4, Cleary water
soluble fertilizer

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CRN) CoRoN controlled release nitrogen
Doggett Corp
(slow release sprayable) Total 35-5-6
DOTS (Distributors Own Turf Supplies)
(custom formulations w/SCU VF SOP nutralene)
DOTS
Garfield Williamson Inc Proform Turf Products Div
(controlled release N with Nitroform, SCU, UF, MDU,
active sludge) PROFORM 30-5-7; (controlled release N
with Nitroform, SCU, UF, MDU, active sludge)
PROFORM 20-5-7
Grace Sierra
Agriform; Customblen
Jonathan Green Inc
(various analysis) Jonathan Green
Green Pro Services
(NPK w/slow release) Vita Blend
Haifa Chemicals Ltd Trans-Resources Chemical Div
(potassium nitrate 13-0-46) K-Power
Hawkeye Chemical Co
(controlled release liquid nitrogen) Formolene LU
Howard Johnson Ent Inc
(custom blends)

J & L Adikes Inc
GRO-WELL
KLM Bio Systems Inc
Bio Groundskeeper
LaRoche Industries Inc
Vertagreen; Soilife; Supreme Green
Lebanon Turf Products Div Lebanon Chemical Corp
Lebanon; Country Club; Greenskeeper; Lebanon Pro;
Green Gold; Turfmaster
LESCO Inc
(Multiple types and blends) LESCO
Milorganite Div of M M S D
(Natural Organic) Milorganite
Milwaukee Metropolitan Sewerage District
(6-2-0 Natural Organic) Milorganite
Moyer Products Inc
(20-9-9) Super Blend; (20-20-20) Verdisol; (32-10-10,
12-26-26) Four Seasons
Moyer & Son Inc
(Urea, polyphosphates, Muriat of potash) Turflio
Nacco Tyfo
Grow More
Na-Churs Plant Food Co
(nitrogen, Phosphorus, Potassium) Na-Churs Liquid
Fertilizer 15-3-3 & 16-2-3; (Nitrogen & potassium)
Na-Churs Liquid Fertilizer 15-05; (liquid potassium)
Na-Churs Liquid Fertilizer 0-0-30; (controlled release
nitrogen, phosphorus, potassium) Na-Churs Liquid
Fertilizer 15-3-4 & 21-3-4; (controlled released
nitrogen) CoRoN
Nature's Touch Div of Agro Chem Inc
(primary, secondary micronutrients) Nature's Touch
Strengthen & Renew
Necessary Trading Co
(soil inoculant, kelp meal) Soil Vitalize; (granular
compost) Sustane 5-2-4; (soluble kelp extract)
FoliaGro

NOR-AM Chemical Co
(Ureaform) Nitroform; (Methylene Urea Polymers)
Nutralene
Organic Lawn Care
(fermented plant tissue concentrates) Plant Extract
Par Ex
(Isobutylidene Diurea) Par Ex
PBI-Gordon Corp
(extract of cow slurry) Bov-a-Mura
Pennington Enterprises Inc
Pennington Professional Turf
Plant Food Co
GREEN-T
Plant Marvel Laboratories Inc
(Bent special 28-8-18, Bermuda special 25-5-20,
Lawn Marvel 28-18-8) Plant Marvel
Ringer Corp
(natural organic slow release fertilizer) Greens 6-1-3,
Greens Super 10-2-6
Riverdale Chemical Co
(15% N, 6% Fe, 3 1/2% S) Fe 6
Roots Inc
(marine algae extract, humic acid, metabolizers, co-
enzymes) Roots
Royalgard Products Co
(Iron, nitrogen, sulfur) Armor, Armor Plus
Ruffin Inc
(Turf Iron Spec 6%N-6%Fe-3%Mn) Ruffin Tuff Iron
Special; (Turf Iron 15% n, 6% Fe) Ruffin Tuff Turf Iron
O M Scott & Sons Co
(Sulfur-lated Urea, Urea, Ammuniated Phosphate,
Potassium chloride) Proturf Fertilizer; (Methylene urea,
urea, ammuniated phosphate, potassium sulfate)
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Urea, Potassium purphosphate) Proturf Fluid
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Triazone Div Arcadian Corp
(Triazone, Reacted UF) N-Sure, Formolene-Plus
UAP Special Products Inc
UAP
Uniroyal Chemical World Headquarters
(Foliar Nutrients) Solu-Spray, Vitatone Iron

Fungicide, Tree

DowElanco
(fenarimol) Rubigan
Elanco Products Co
(Fenarimol) Rubigan
Fermenta ASC Corp
(Chlorothalonil) Daconil 2787 Flowable, Daconil 2787 W-75, Daconil 2787 WDG
Grace Sierra
Duo San
LESCO Inc
(Maneb, Zinc) LESCO Mancozeb; LESCO Benomyl DG; LESCO 4 Flowable w/Zinc
J J Mauget Co
(DEBC) Fungisol; (Oxycarboxin) Fungisol PV
Mobay Corp
(Triadimefon) Bayleton
Southern Mill Creek Products Co
Tersan 1991
UAP Special Products Inc
Captam; Mancozeb

Fungicide, Turf

Andersons (The)
CelPril Industries
(Seed coating) Apron
Ciba Geigy Corp Turf & Ornamental Products
(Metalaxyl) Subdue; (Propiconazole) Banner; (Metalaxyl/Mancozeb) Pace
W A Cleary Chemical Corp
Cleary Spotre; Cleary 3336 WSB; Cleary PMAS;
Cleary Caddy
DOTS (Distributors Own Turf Supplies)
(Bayleton, Baenomy) DOTS
DowElanco
(fenarimol) Rubigan; (fenarimol + chlorothalonil) Broadway
E I DuPont de Nemours & Co
(Benomyl) Tersan 1991 DF; (Mancozeb) Tersan LSR
Elanco Products Co
(Fenarimol) Rubigan
Fermenta ASC Corp
(Chlorothalonil) Daconil 2787 Flowable, Daconil 2787 W-75, Daconil 2787 WDG
Grace Sierra
(Thiophanate methyl) Fungo; (Vinclozolin) Vorlan41100; (Mercuries) Calo-Clor & Calo-Gran;
(Thiram) Thiramad
Jonathan Green Inc
Banol; Bayleton; Chipco 26019; Daconil 2787; Aliette;
Bayleton Granular; Tersan 1991
Gustafson Inc
(Metalaxyl) Gustafson Apron-FL, Apron 25W, Apron 12.5% dust Seed Treatment
Howard Johnson Ent Inc
(Bayleton)
J & L Adikes Inc
(Dyrene) GRO-WELL

Kincaid Enterprises Inc
(Chloroneb) Terraneb SP

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Lebanon Turf Products Div Lebanon Chemical Corp
(Bayleton (Triadimefon)) Lebanon; (Daconil 2787 (Chlorothalonil)) Green Gold, Lebanon; (Benomyl) Lebanon
LESCO Inc
Lesco PCNB 10%; LESCO 1.0% Bayleton; (Thiram) LESCO Thiram 75DG; LESCO Benomyl DG;
(Chlorothalonil, Fenarimol) LESCO TwoSome; (Maneb, Zinc) LESCO Mancozeb
Mobay Corp
(Triadimefon) Bayleton; (Anilazine) Dyrene
NOR-AM Chemical Co
(Propamocarb) Banol
PBI-Gordon Corp
(chloroneb) Teremec; (fore) Formec
Rhône-Poulenc AG Co
(Iprodione) CHIPCO 26019; (Aluminum Tris) CHIPCO Aliette
Rigo Co Black Leaf Products Co
(mancozeb) Black Leaf Fore
Royalgard Products Co
(Thiophanate Methyl) Chariot; (mancozeb) Shield
O M Scott & Sons Co
(Thiophanate-methyl, Iprodione) Proturf Fluid Fungicide; (PCNB) Proturf FF II; (Tiladimefon, Metalaxyl) Proturf Fluid Fungicide II
Southern Mill Creek Products Co
Daconil 2787; W-75; Chipco 26019; Dithane F-45
UAP Special Products Inc
(PCNB) Mancozeb, Tersan, Daconil, Sulsdue, Banner
Uniroyal Chemical World Headquarters
(PCNB) Turfcide, Terraclor; (Etridiazol) Terrazole

Grass Coatings

CelPril Industries
Nutri-Kote; Nutri-Kote & Apron
Nature's Touch Div of Agro Chem Inc
(nutrient to keep healthy grass stay) Nature's Touch
Green Magic
Pennington Enterprises Inc
(apron) PenKote

Growth Regulator, Turf/Ornamental

Abbott Laboratories
(Gibberellic acid) PRO-GIBB
Andersons (The)
Burlington Scientific Corp
(Kinetin Gibberellic Acid Auxins) Auxinal
DowElanco
(flurpyrimidol) Cutless
Elanco Products Co
(Fluppyrimidol) Cutless
Leffingwell Uniroyal Chemical
(Chlorflurenol) Maintain CF-125, Maintain A
LESCO Inc
Cutless 50W
Nature's Touch Div of Agro Chem Inc
Force
PBI-Gordon Corp
(metiluidide) Embark; (amidochlor) Limit
Roots Inc
(marine algae extract, humic acid, metabolizers, co-enzymes) Roots
O M Scott & Sons Co
(Paclobutazol, Methylenureas, ammoniated phosphate, potassium sulfate) Proturf Fertilizer with TGR Pla annual control, Proturf Hybrid Bermuda TGR Plus Fertilizer
UAP Special Products Inc
Limit
Uniroyal Chemical World Headquarters
(Maleic hydrazide) Royal Slo-Gro; (Daminozide) B-Nine SP

Herbicides, Aquatic

Andersons (The)
Applied Biochemists Inc
(Diquat) Weedtrine-D; (2,4-D granular) Weedtrine II
Arborchem Products Co
(Glyphosate) Rodeo; (diquat bromide) Diquat
DowElanco
(Fluoridone) Sonar
Elanco Products Co
(Fluridone) Sonar
LESCO Inc
LESCO Sonar AS; LESCO Sonar SRP; Lescocide-Plus
Monsanto Agricultural Co
(Glyphosate) Rodeo
PBI-Gordon Corp
(dichlobenil) Norosac 10G
Rhône-Poulenc AG Co
(2,4-D) Aqua-Kleen
Riverdale Chemical Co
(2,4-D (IOE)) 2,4-D Granules; (2,4-D Amine) Weedestroy AM-40 Amine Salt
Southern Mill Creek Products Co
Aquazine; Aquathol K; Hydrothol 191; Rodeo
UAP Special Products Inc
Aquashade Aquathel; Hydrothol
Uniroyal Chemical World Headquarters
(Dichlobenil) Casoron-10G
Valent USA Corp
(Diquat) Diquat

Herbicides, Nonselective

Andersons (The)
Arborchem Products Co
All
Jonathan Green Inc
Pramitol; Round-Up; Prometon 5E Glysophate
Hoechst-Roussel Agri-Vet Co
(Glufosinate-ammonium) Ignite Herbicide
Howard Johnson Ent Inc
J & L Adikes Inc
(Pramitol & 2,4-D) GRO-WELL No-Gro
LESCO Inc
(Glyphosate) LESCO Avail; LESCO Pro Trim; (Sodium metaborate tetrahydrate, sodium chlorate, bromacil) Lescobar
Monsanto Agricultural Co
(Glyphosate) Roundup & Expedite
PBI-Gordon Corp
Vegemec; (dichlobenil) Dycdmel 4-G
Rhône-Poulenc AG Co
(Amitrole) Amitrol-T

Rigo Co Black Leaf Products Co
(Pramitol) Rigo's Best Non-Selective Weed Killer;
(sodium chlorate, sodium metaborate) Black Leaf
Grass, Weed & Veg Killer
Riverdale Chemical Co
(Sodium Chlorate) Killsall; (Bromacil & Diuron) DiBro
Granular & DiBro 2 + 2; (Velpar L) 1.25%
Hexazinone; (Pramitol) Prometon 5# Veg Killer Conc;
(Bromacil) 2.5% Bromacil Liq R-T-U
Southern Mill Creek Products Co
Hyvar; Velpar; Karmes
UAP Special Products Inc
Roundup; Diquat
Uniroyal Chemical World Headquarters
(Dichlobenil) Casoron-10G, 50W
Valent USA Corp
(Diquat) Diquat Trim & Edge

Herbicides, Ornamental

Arborchem Products Co
(Oryzalin) Surflan AS; (Glyphosate) Roundup
BASF Corp
(Sethoxydim) Vantage
DOTS (Distributors Own Turf Supplies)
(surflan) DOTS
DowElanco
(oryzalin) Surflan; (oryzalin + benefin) XL
Jonathan Green Inc
Weed Screen w/Treflan 1.75%; Treflan 5G; Surflan AS
Lebanon Turf Products Div Lebanon Chemical Corp
(Treflan (Trifluralin)) Lebanon, Green Gold
LESCO Inc
LESCO Ornamental Herbicide 5G; LESCO Take-Out
PBI-Gordon Corp
(L V Esters of 2,4-D & Dicamba) Super Trimec

Herbicides, Postemergence

American Cyanamid Co
(Imazaquin) Image
Andersons (The)
Arborchem Products Co
All
BASF Corp
(Bentazon) Basagran T/O; (Sethoxydim) Vantage
W A Cleary Chemical Corp
Cleary MCPP 2,4-D; Clearys Methar 30; Clearys MCPP
DOTS (Distributors Own Turf Supplies)
(triamine, trimec) DOTS
Dow Chemical Co
(Triclopyr & 2,4-D) Turflon II; (Triclopyr) Turflon;
(Chlorpyralid & Triclopyr) Confront
DowElanco
(2,4-D + triclopyr) Turflon; (triclopyr + clopyralid)
Confront
Fermenta ASC Corp
(MCPP + 2, 4-D Amine Dimethylene salt of 2,4-D &
MCPP) 2 + 2 (MCPP + 2,4-D Amine); (N-Oleoyl-1,3-
Propylene Diamine Salt of 2,4-D) Dacamine 4D;
(MSMA) Daconate 6; (MSMA) Bueno 6 (West Coast);
(DCPA) Dacthal Flowable; (DCPA) Dacthal W-75
Grace Sierra
(MCPP, Dicamba, 2-4 D) Trex-San Broadleaf
Jonathan Green Inc
Trimecs; Trimec Plus; Basagran; Trimec Granules;
Weed & Feed 19-4-4; Triamine; Riversale Weeddestroy;
Weedone DPC
Hoechst-Roussel Agri-Vet Co
(Fenoxaprop-ethyl) Acclaim
SEE AD NEXT COLUMN
Howard Johnson Ent Inc
(Triamine, 2,4-D Amine & Ester)
J & L Adikes Inc
(Trimec DSMA) GRO-WELL



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(Trimene, weed & Feed) Vertagreen

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Remember that versatile Roundup[®] herbicide stays where you put it. That means there's no washing or leaching to harm customers' shrubs or other desirable vegetation. All around the house, garage, patio, and more — REMEMBER THE ROUNDUP. For more information, call toll-free **1-800-323-1421**.

Always read and follow the label for Roundup[®] herbicide. Roundup[®] is a registered trademark of Monsanto Company. ©Monsanto Company 1990 RGP-0-870L

REMEMBER THE
Roundup

continued

Lebanon Turf Products Div Lebanon Chemical Corp
(2,4-D & MCPP) Country Club, Lebanon, Green Gold,
Turfmaster; (Trimec (2,4-D & MCPP & Dicamba))
Lebanon Pro

LESCO Inc
(2,4-D & 2,4-DP) LESCO Granular Herbicide; LESCO
Moss & Algae Eraser; (Fluazifop-p-butyl) LESCO
Take-Out; LESCO TFC; LESCO Image; LESCO MSMA
6.6; (MCPP) Lescopex; LESCO Weedone; (2,4-D)
LESCO A-4D; LESCO Bentgrass Selective Broadleaf
Herbicide; (2,4-D, MCPP & Dicamba) LESCO Three
Way; LESCO Spot Weeder; (2,4-D, MCPP & dicamba)
LESCO Three-Way; (2,4-D) LESCO A-4D; (MCPP)
Lescopex; (MSMA) LESCO MSMA 6.6; LESCO Image;
LESCO TFC; LESCO Moss & Algae Eraser

Mobay Corp
(metribuzin) Sencor

Monsanto Agricultural Co
(MCPP, 2,4-D) Expedite Broadleaf Herbicide

NOR-AM Chemical Co
(Ethofumesate) Prograss

PBI-Gordon Corp
(Amine 2,4-D, MCPP + Dicamba) Trimec Classic,
Bentgrass Formula, Southern Formula, Encore,
Applicators Formula

Rhone-Poulenc AG Co
(asulam) Asulox; (2,4-D plus 2,4-DP) Weedone DPC

Rigo Co Black Leaf Products Co
(MSMA) Rigo's Best Grabgrass Killer; (Eptam) Black
Leaf Eptam Weed Control

Riverdale Chemical Co
(MCPA, MCPP & 2, 4-DP/Amine) Triamin II, Par 3;
(2,4-D, MCPP & 2,4-DP (Amine)) Triamine Granular
Weed Killer, Triamine Jet-Spray Spot Weed Killer,
Triamine; (2,4-D Amine) Weeddestroy AM-40 Amine
Salt, Turf Weeddestroy D; (2,4-D, MCPP & 2,4-DP
(IOE)) Tri-Ester; (MPA, MCPP & 2, 4-DP (IOE))
Tri-Ester II; (2,4-D & 2,4-DP (IOE)) Turf D + DP,
Brush Killer; (Mecoprop (Amine)) Weeddestroy MCPP-2
Amine, MCPP-4 Amine; (Mecoprop (IOE)) MCPP L.V.
Ester; (2,4-D & Dichlorprop (Amine)) 2 D + 2 DP
Amine; (Mecoprop IOE) MCPP L V Ester; (MCPA
(Amine)) MCPA-4 Amine; (Dichlorprop/IOE) DP 4
Ester; (2,4-D IOE) 2,4-D Granules; (2,4-D, MCPP &
2,4-DP (Acid)) Triamine II W S; (2,4-D Amine)
Weeddestroy Amine 6D; (Mecoprop & 2,4-D) 2-MCPP
& 2 D Amine; (2,4-D & MCPP (IOE)) Granular Lawn
Weed Killer

Royalgard Products Co
(2,4-DP, MCPP, MCPA) Sabre

O M Scott & Sons Co
(Dicamba) Proturf K-O-G; (Atrazine methylene ureas,
urea, ammoniated phosphate, muriate of Potash)
Proturf St Augustine Weed Control Plus Fertilizer;
(2,4-D MLPP, Dicamba) Proturf Fertilizer w/dicet weed
control III

Southern Mill Creek Products Co
Roundup; MSMA 6.66

UAP Special Products Inc
MecAmine - D; Four Power Plus

SEE AD NEXT COLUMN

Uniroyal Chemical World Headquarters
(Dichlobenil) Casoron 2G, 4G

Herbicides, Preemergence

American Cyanamid Co
(Pendimethalin) Pendimethalin

Andersons (The)

Arborechem Products Co
All

Ciba Geigy Corp Turf & Ornamental Products
(Metalachlor) Pennant

DOTS (Distributors Own Turf Supplies)

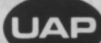
(Team, Surflan, Dacthal, Tupersan Balan, Excel) DOTS

DowElanco
(benefin + trifluralin) Team; (benefin, benefin +
oryzalin, oryzalin) Balan, XL, Surflan

Elanco Products Co
(Oryzalin) Surflan; (Benefin) Balan; (Oryzalin +
Benefin) XL; (Benefin, Trifluralin) Team; (Trifluralin)
Treflan

Grace Sierra
(Betasan) Pre-San

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Jonathan Green Inc
Balan; 22-2-6 w/TEAM; 15-5-5 w/ TEAM; 28-3-5
w/Team; Crab Spray 10% Team; Team; 10-15-10
w/Tupersan (Siduron)

Howard Johnson Ent Inc
(Team, Dacthal, Balan, Dryzalin, Excel, Tupersan,
Betasan)

ICI Americas Inc
(Bensulide) Betusan; (Propionamide) Devrinol;
(Dipropylthiocarbamate) Eptam

J & L Adikes Inc
(Tupersan Team) GRO-WELL

LaRoche Industries Inc
(Team, Balan, Ronstar) Vertagreen

Lebanon Turf Products Div Lebanon Chemical Corp
(Balan (Benefin)) Country Club, Lebanon, Turfmaster,
Green Gold; (Betasan (Bensulide)) Lebanon, Country
Club; (Dacthal (DCPA)) Lebanon, Country Club;
(Ronstar (Oxidiazon)) Country Club; (Team (Benefin &
Trifluralin)) Country Club, Green Gold, Lebanon Pro;
(Tupersan (Siduron)) Lebanon, Green Gold; (Surflan
(Oryzalin)) Country Club

LESCO Inc
LESCO Pre-M; LESCO Ornamental Herbicide 5G;
LESCO Soil Prep; Lescosan 4E; Lescosan 7G; LESCO
Dacthal 5G; LESCO 2.5 benefin Granular

Mobay Corp
(metribuzin) Sencor

NOR-AM Chemical Co
(Ethofumesate) Prograss

PBI-Gordon Corp
(2,4D, MCPP, dicamba + MSMA) Trimec Plus

Rhone-Poulenc AG Co
(Oxidiazon) Chipco Ronstar

Rigo Co Black Leaf Products Co
(Dacthal) Rigo's Best Weed Granules; (Treflan) Rigo's
Best Garden Weed Granules

Royalgard Products Co
(Bensulide) Roysan 4E, 12.5G

O M Scott & Sons Co
(Pendimethalin, Methylene urea) ProTurf HD Fertilizer
Plus Turf Weedgrass Control; (Pendimethalin) Proturf
Turf Fertilizer Plus Preemergent Weed Control;
(Pendimethalin, Methylene urea) Proturf Weedgrass
Control; (Siduron) Proturf Starter Fertilizer w/
Preemergence weed control

Southern Mill Creek Products Co
Ronstar

UAP Special Products Inc
Weedgrass Control; Team; XL; Balan; Casaron; Surflan
Uniroyal Chemical World Headquarters
(Naphtalm) Alanap L

Insecticides, Tree/Ornamental

Abbott Laboratories
(Bacillus thuringiensis) DIPEL

Creative Sales Inc
(Acephate) Acecap 97 Systemic

Dow Chemical Co
(Chlorpyrifos) Dursban

DowElanco
(chlorpyrifos) Pageant

F M C Corp Ag Chem Group
(Bifenthrin) Talstar



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label for details.

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Jonathan Green Inc
Dursban 50% WSB; Sevin 4L
Howard Johnson Ent Inc
(Dursban, Oktanil, Diazinon, Trichlorfon Sevin brand
carraryl insecticide)

J & L Adikes Inc
(Malathion, Methoxychlor, Diazinon, Sevin,
Horticultural Oil) Gro-Well

Kincaid Enterprises Inc
(Methoxychlor) Marlate 50 WP

LESCO Inc
LESCO Sevin 6.3 Granular; (Diazinon) LESCO Diazinon
500; (Chlorpyrifos) LESCO Dursban 2.32G

Maag Agrochemicals Inc
(IGR) fenoxycarb) LOGIC Fire Ant Bait

J J Mauget Co
(Oxydemeton-methyl) Inject-A-Cide; (Dicotophos)
Inject-A-Cide B

Mobay Corp
(Oxydemeton-methyl) Metasystox; (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 & 50W;
(Malathion) Pentox 5lb Malathion Spy

Chemicals

continued

Reuter Laboratories Inc
(Potassium salts of fatty acids) Aphid-Mite Attack Concentrate
Rhône-Poulenc AG Co
(Carbaryl) Sevin
Rigo Co Black Leaf Products Co
(Nicotine Sulphate) Black Leaf 40
Ringer Corp
(Insecticidal soap concentrate) Aphid-Mite Attack
D B Smith & Co
DIPEL
Southern Mill Creek Products Co
Mavrik; Sevin
UAP Special Products Inc
Malathion; Safer; Carlsaryl; Mavrik
Uniroyal Chemical World Headquarters
(Diffubenzuron) Dimilin 25W
Valent USA Corp
(Acephate) ORTHENS Turf, Tree & Ornamental Spray;
(Fenpropathrin) Tame

Insecticides, Turf

Abbott Laboratories
(Bacillus thuringiensis) DIPEL
American Cyanamid Co
(Tetrahydro) AMDRO
Andersons (The)
Tee Time
Ciba Geigy Corp Turf & Ornamental Products
(Isazofos) Triumph
DOTS (Distributors Own Turf Supplies)
(Diazinon, Carbaryl, Dycoc, Oftanol Dursban granules & w/ fert) DOTS
Dow Chemical Co
(Chlorpyrifos) Dursban
DowElanco
(chlorpyrifos) Dursban

EcoHealth Inc
(Permethrin) Damminix
Jonathan Green Inc
Dursban 2.32%G; Dylox 6.2%G; Sevin 4L; Dursban 50% WBS; Turcam 76% WP; Sevin 5%G; Turcam 2.5%G
LaRoche Industries Inc
(Trichlorofon, Diazinon, Dursban) Vertagreen
Lebanon Turf Products Div Lebanon Chemical Corp
(Dursban (Chlorpyrifos)) Country Club, Green Gold, Lebanon, Lebanon Pro; (Oftanol (Isosfenfos)) Lebanon, Country Club, Lebanon Pro; (Dylox (Dimethyl Phosphonate)) Lebanon; (Diazinon) Lebanon; (Sevin (Carbaryl)) Lebanon
LESCO Inc
(Carbaryl) LESCO Sevin Brand 6.3G; (Carbaryl) LESCO Sevin Brand SL; LESCO Oftanol 1.5G; (Chlorpyrifos) LESCO Dursban 2.32G & 0.97G; LESCO Diazinon 500, 5G & 14G; LESCO White Grub & Sod Webworm Insecticide 6.2
Maag Agrochemicals Inc
(IGR) fenoxycarb) Logic Fire Ant Bait
Mobay Corp
(Trichlorofon) Dylox; (Isosfenfos) Oftanol
NOR-AM Chemical Co
(Bendiocarb) Turcam; (Trichlorofon) Proxol
PBI-Gordon Corp
(Fluazifop Butyl) Ornamel
Prentiss Drug & Chemical Co
(Chlorpyrifos) Prentox Dursban 4E; (Diazinon) Prentox Diazinon AG-500 & 5G
Reuter Laboratories Inc
(Spores of bacillus popilliae Dutky) Grub Attack
Rhône-Poulenc AG Co
(Carbaryl) Sevin; (Ethoprop) Chipco Mocap 5G
Rigo Co Black Leaf Products Co
Rigo's Best; (Oftanol) Rigo's Best Turf Saver;
(Avermectin) Affirm Fire Ant Killer

Ringer Corp
(Bacillus popilliae milky spore disease) Grub Attack
Royalgard Products Co
(Dimethoate) Cygon 2-E; (Diazinon) Diazinon 5G & 4E; (Chlorpyrifos) Mole Cricket Bait D; (Malathion) Malathion 5E; (Carbaryl) Sevin 4F; (Chlorpyrifos) Dursban 4E & 2.32 G
O M Scott & Sons Co
(Chlorpyrifos) ProTurf Fertilizer Plus Insecticide III; (Diazinon) Insecticide I; (Isosfenfos) Insecticide IV
D B Smith & Co
(resmethrin) BURGESS
Southern Mill Creek Products Co
Dursban 2E; Diazinon 4E
UAP Special Products Inc
Turcam; Durshan; Sevin 10G; Carbaryl; Diazinon; Triumph
Valent USA Corp
(Acephate) ORTHENE Turf, Tree & Ornamental Spray

Miticides

Mobay Corp
(Oxythioquinox) Morestan
Southern Mill Creek Products Co
Deltic
UAP Special Products Inc
Pentac; Orthene
Uniroyal Chemical World Headquarters
(Propzrgite) Ornamite
Valent USA Corp
(Fenpropathrin) Tame

Mulches & Erosion Control

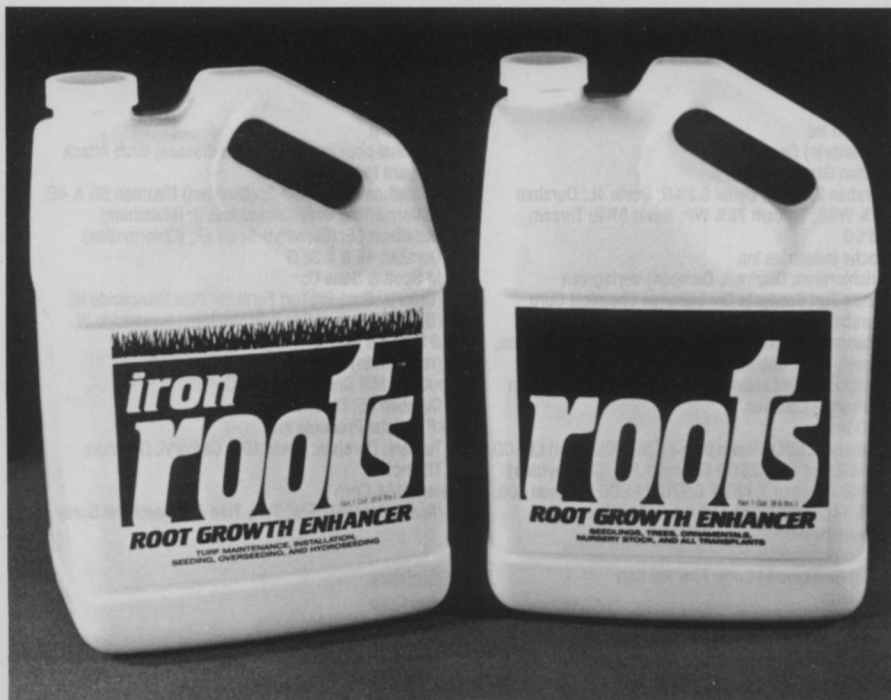
Becker-Underwood Inc
Mulch Magic

All around the house...

Remember that environmentally friendly Roundup® herbicide is biodegradable. It won't build up in the soil, so you can use Roundup with confidence along customers' driveways, sidewalks and fences, and — wherever trimming, edging or weed problems pop up. For more information, see your dealer, or call toll-free **1-800-323-1421** and REMEMBER THE ROUNDUP.

Always read and follow the label for Roundup® herbicide. Roundup® is a registered trademark of Monsanto Company. ©Monsanto Company 1990 RGP-0-970L

REMEMBER THE
Roundup



ROOTS™ TO THE RESCUE...

PLANTING A TREE IS HALF THE BATTLE

The other half is keeping it alive. Use ROOTS*, the root growth enhancer, to make your installed trees and shrubs thrive. Landscape contractors use ROOTS for fast root regrowth that reduces transplant shock and helps the tree support its above above-ground biomass. Just drench the soil after planting with ROOTS diluted 50 to one. Two ounces of ROOTS (concentrate) to one inch caliper, so a gallon will treat sixty seedlings or ten to twenty large trees.

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If you have an obligation to replace any plants in a contract period, doesn't it make sense to encourage root growth? There is really nothing else that will do the job ROOTS does. ROOTS may be the best insurance policy available for plantings.

KEEP EVERYTHING LOOKING GOOD WITH ROOTS*

If you are not getting the growth, healthy appearance, or flowering that you want in your plantings, you use ROOTS on all your trees, once in the spring, once in the fall. Apply as a soil drench or with root feeding (but not more than 12 inches deep).

ROOTS was developed by scientists at the Yale School of Forestry and is widely used for transplanting, and the maintenance of all stressed trees. Send in for simple explanation of how ROOTS works, and a list of distributors.

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Chemicals

continued

Belton Industries Inc
(all natural fabrics) ANTI-WASH; (coconut fiber matting) DEKOWE
Cellin Mfg Inc
Cellin Fiber Mulch; Cellin-K; (Tackifier) Cellin Seal, Spoiler Fiber Mulch
Jonathan Green Inc
Jonathan Green Hydro Seeding Fibermulch; Jonathan Green Hydrogreen Tackifier; Staples; Excelsior Blankets; Jute Netting; Jonathan Green Super Tackifier
Hoechst Celanese Corp
(100% Polyester fibers) Earth Blanket
Nature's Touch Div of Agro Chem Inc
(plant/microbial by-products, enzymes, wetting agents) Nutra Aid
Paygro Co
Paygro Hardwood Mulch
Proseed (USA) Inc
(coastal bermuda hay, non-toxic polymer) PS100 Mulch Blanket
PRSM Inc
(Vegetative gum based) Mulch Mate Hydroseeding Tackifiers; (cellulose based fiber mulch) Quickseed Hydroseeding Mulch
Soil Seal Corp
(Copolymer of methacrylates & acrylates) Soil Seal Concentrate
Weyerhaeuser Co
Silva-Fiber Hydraulic Planting Mulch

Silva-Fiber®
Wood Fiber Mulch

and Silva-Fiber Plus®

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Nematicides

Igene Biotechnology Inc
(Chitin Protein Complex) ClandoSan(R)
LESCO Inc
Mocap 5G; LESCO Soil Prep
Mobay Corp
(fenamiphos) Nemacur
Rhône-Poulenc AG Co
(Ethoprop) Chipco Mocap 5G
Southern Mill Creek Products Co
Mocap; Nemacur
UAP Special Products Inc
Nemacur

Penetrant, Metal

LESCO Inc
(petroleum based) LESCO 4-Way Lubricant

Repellents, Animal

Burlington Scientific Corp
(Denatonium Saccharide) Ro-Pel; (Vilex) RoPel Garbage Protector
W A Cleary Chemical Corp
(Thiram) Cleary's Spotrete
Gustafson Inc
(Thiram) Gustafson Thiram 42-S
Necessary Trading Co
Hinder
Rigo Co Black Leaf Products Co
(dried blood, tobacco dust, moth balls) Black Leaf Hare & Hound Repellent; (Nicotine sulphate) Black Leaf 40
Uniroyal Chemical World Headquarters
(Ammonium soap of higher fatty acids) Hinder

Soil Amendments

Aglukon Agri-Products
(co-polymer acrylamide & pot aerylale) Viterra
gelscape

SEE AD NEXT PAGE

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Still the Product of Choice for Preemergent Control.



Turf managers keep choosing LESCO PRE-M® 60 DG preemergent herbicide because it's cost effective. They know from experience that it gives them control over most major

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PRE-M stops crabgrass, annual bluegrass, foxtail, goosegrass, barnyardgrass and fall panicum. And it's effective on these tough-to-control broadleaf weeds: oxalis, spurge, common and mouseear chickweed, henbit, evening primrose and hop clover.

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broad-spectrum weed control. Programmed applications of LESCO PRE-M control both early and late germinating weeds. Labeled for use on most northern and southern turfgrasses, PRE-M's water-dispersible formula can be tank mixed with most fertilizers and pesticides.

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Contact your LESCO Sales Representative, visit your nearest LESCO Service Center or call toll free (800) 825-3726. In Cleveland, call (216) 333-9250.



LESCO

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20005 Lake Road
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Always read and follow label instructions before applying any herbicide product. PRE-M® is a registered trademark of LESCO, Inc.

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(natural turf repair) DOTS
Green Pro Services
(humates & minerals) Vita-Build; (micro-organisms & humates) Vita-Krobe

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JRM Chemical
(Acrylic CoPolymer) Soil Moist; (Acrylic CoPolymer w/fertilizer) Soil Moist Plus; (Acrylic CoPolymer) Soil Moist Fines; (Acrylic CoPolymer w/fertilizer) Soil Moist House Plant Spikes
LESCO Inc
LESCO Pelletized Dolomitic Limestone; Turface; LESCO Spreader Sticker; LESCO-Wet
Nacco Tylo
Soil Penetrant; Dust Binder; Spreader 79
Nature's Touch Div of Agro Chem Inc
(plant/microbial by-products, enzymes, wetting agents; organic micronutrients) Relief
Organic Lawn Care
(Humic acid) Soluble Humic Acid
PBI-Gordon Corp
(extract of dairy cow slurry) Bov-A-Mura

Pennington Enterprises Inc
Pennington Vermiculite; PennGro Potting Soil
PRSM Inc
(sewage sludge based compost) Earthlife Compost
Southern Turf Nurseries
(Calcine clay) Terra Green
Sustane Corp
(dry organic granular compost turkey litter) Sustane
UAP Special Products Inc
Turfade

Soil Conditioner

AMPEL
(pelletized lime) Granulime; (Pelletized lime & gypsum) Reveille; (pelletized Lime & Gypsum) Cal-Sul
Emerald Isle Ltd
(granular sea plant meal) Sand-Aid
Four Star Agricultural Service
(ammonium lureth sulfate) Pene-Turf; (sulfate lureth) Perk; (sulfate lureth) Li-L Perk
Green Pro Services
(combination of humates & wetting agent) Vita Flow
JRM Chemical
Soil Moist Plus
LESCO Inc
LESCO-Wet; Turface; LESCO Spreader Sticker
Nature's Touch Div of Agro Chem Inc
(plant/microbial by-products, enzymes) Nutra Aid
Organic Lawn Care
(enzymes) Soilaid
PBI-Gordon Corp
(extract of dairy cow slurry) Bov-A-Mura
Reinco Inc
(tackifier) RMB Plus
Soil Technologies Corp
(chlorophytes) TURFtech; (cyanophytes) TURFtech Plus
Southern Turf Nurseries
(Calcine clay) Terra Green
Warren K Lorfald
Liqui-Cal

Soil Fumigants

Hendrix & Dail Inc
(Methyl Bromide/Chloropicrin) MBC-C/MBC/MBC-33
ICI Americas Inc
(Sodium methylthiocarbamate) Vapam
LESCO Inc
LESCO Soil Prep
Rigo Co Black Leaf Products Co
(vapam) Black Leaf Vapam
Southern Mill Creek Products Co
Bromogas
Trebor Corp
(Activated Flowable Charcoal) Flowable Charcoal
UAP Special Products Inc
Basamid

Sorbents

Jonathan Green Inc
(polymer hydrogel) Gelscape
Warren K Lorfald
Chemsorb

Spill Absorbants

Arborchem Products Co
(Silicon Flakes) Spill Guard
W A Cleary Chemical Corp
Cleary's ClearSorb
Jonathan Green Inc
Hazorb Pillows
ICI Americas Inc
(Activated carbon) Grosafe
LESCO Inc
LESCO Hazorb Pillows
Precision Laboratories Inc
Chemsorb; Petrosorb
Spectrum Technologies Inc
Hazorb; Polysorb

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Inquiry Card

“ALCA is the best landscape business resource in the country.”

“When I started my business seven years ago I needed expert advice,” says Joe Skelton, president of Lifescapes, Inc., Canton, Georgia. “That’s when I joined ALCA.

“By attending marketing and technical seminars, using the *Operating Cost Study* to estimate projects, enrolling in ALCA’s business insurance program and simply working hard, I have been able to build my business to over four million dollars.

“ALCA is a great resource. Through their meetings, videos and publications, you can find out how to increase sales and profits, reduce costs, and learn about the latest products and technology developments.”

Join ALCA today and meet people like Joe Skelton.

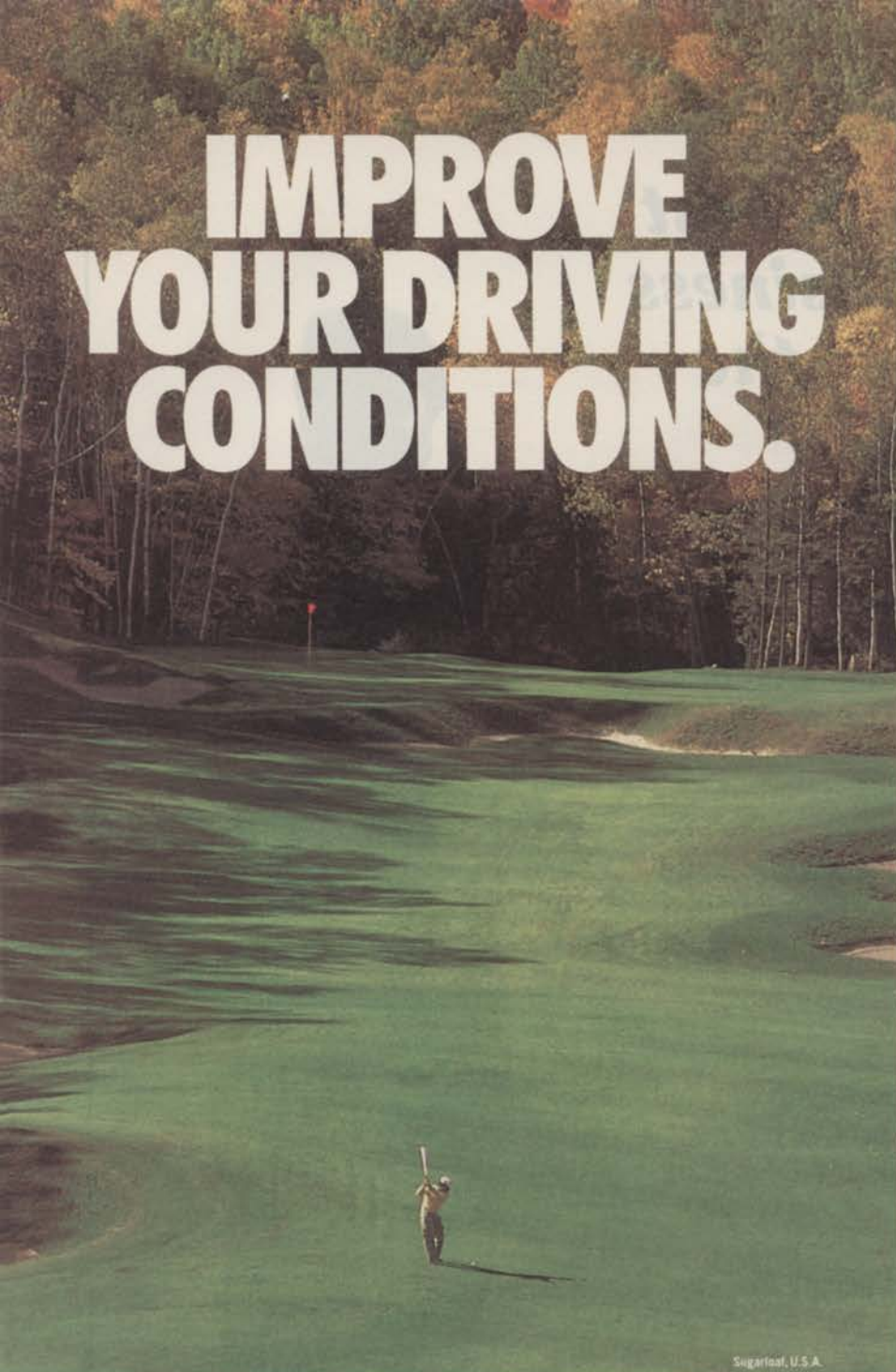
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Circle No. 160 on Reader Inquiry Card

Chemicals

continued

Trebor Corp
(Polymer starch) Soak-Up
Warren K Lerfald
Chemsorb

Sticker/Extender

Arborchem Products Co
(crop oil w/ pine masking agent) Clean Cut + Pine;
Clean Cut
Finn Corp
(gum & additives) Hydro Stik
Kalo Inc
Bio-Film
LESCO Inc
LESCO Spreader Sticker
Nature's Touch Div of Agro Chem Inc
(plant/microbial by-products, enzymes, wetting
agents) Nutra Aid
PBI-Gordon Corp
Exhalt 800
Precision Laboratories Inc
Chem-Stik
UAP Special Products Inc
Bond
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Chem-Stick

Tree Dressings

Arborchem Products Co
(NAA Inhibitor) Sprout Gard
LESCO Inc
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Wetting Agents

Aglukon Agri-Products
(blend of esters & ethers) Aquatrant
Aquatrols
(solid pellet formulation non-ionic organic wetting
agent) AquaGro Advantage; (33% active ingredient
non-ionic organic wetting agent) AquaGro Injectable;
(Polyoxyethylene) AquaGro
Arborchem Products Co
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Surfactant
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Grace Sierra
Hydraflo
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Nacco Tyfo
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PBI-Gordon Corp
Turfex; Aqua-Zorb
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Pen-A-Trate
Royalgard Products Co
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800-558-5106

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Somerset NJ 08873
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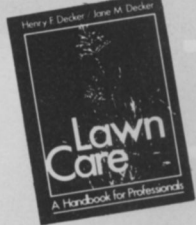
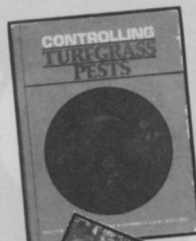
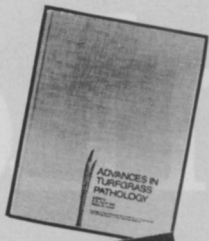
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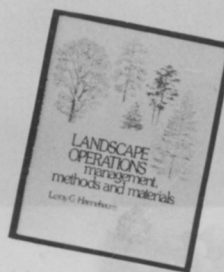
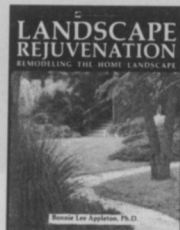
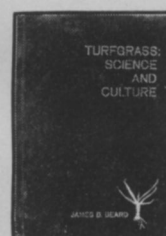
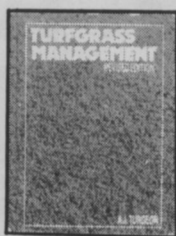
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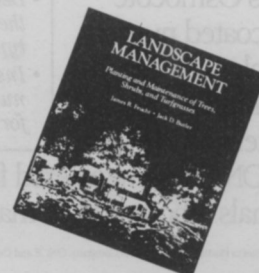
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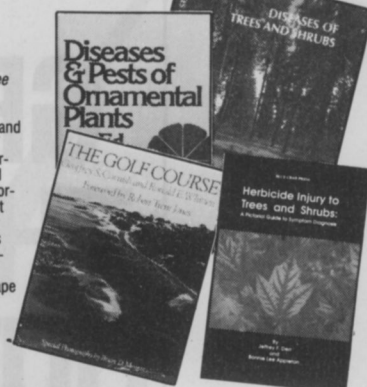
By Wayne Sinclair, Howard Lyon and Warren Johnson
A comprehensive pictorial survey of the diseases of, as well as the environmental damage to, forest and shade trees and woody ornamental plants in the United States and Canada. Reflects the most important developments in fungal biology and taxonomy, plant bacteriology, virology, and environmentally induced stress in plants. Summarizes information about newly discovered diseases and provides up-to-date accounts of old ones. **\$52.50**

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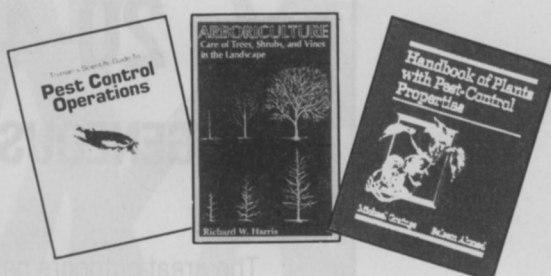
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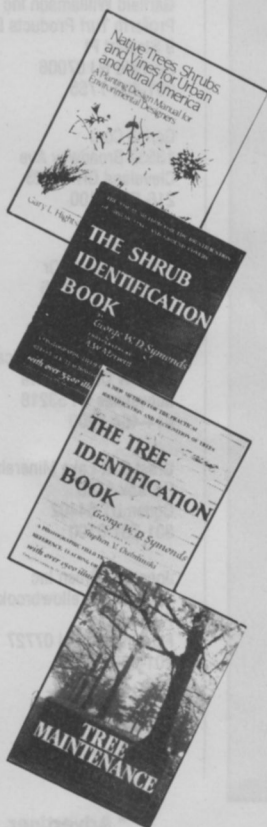


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317-276-2679
800-352-6776

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313-662-2727

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216-357-4100

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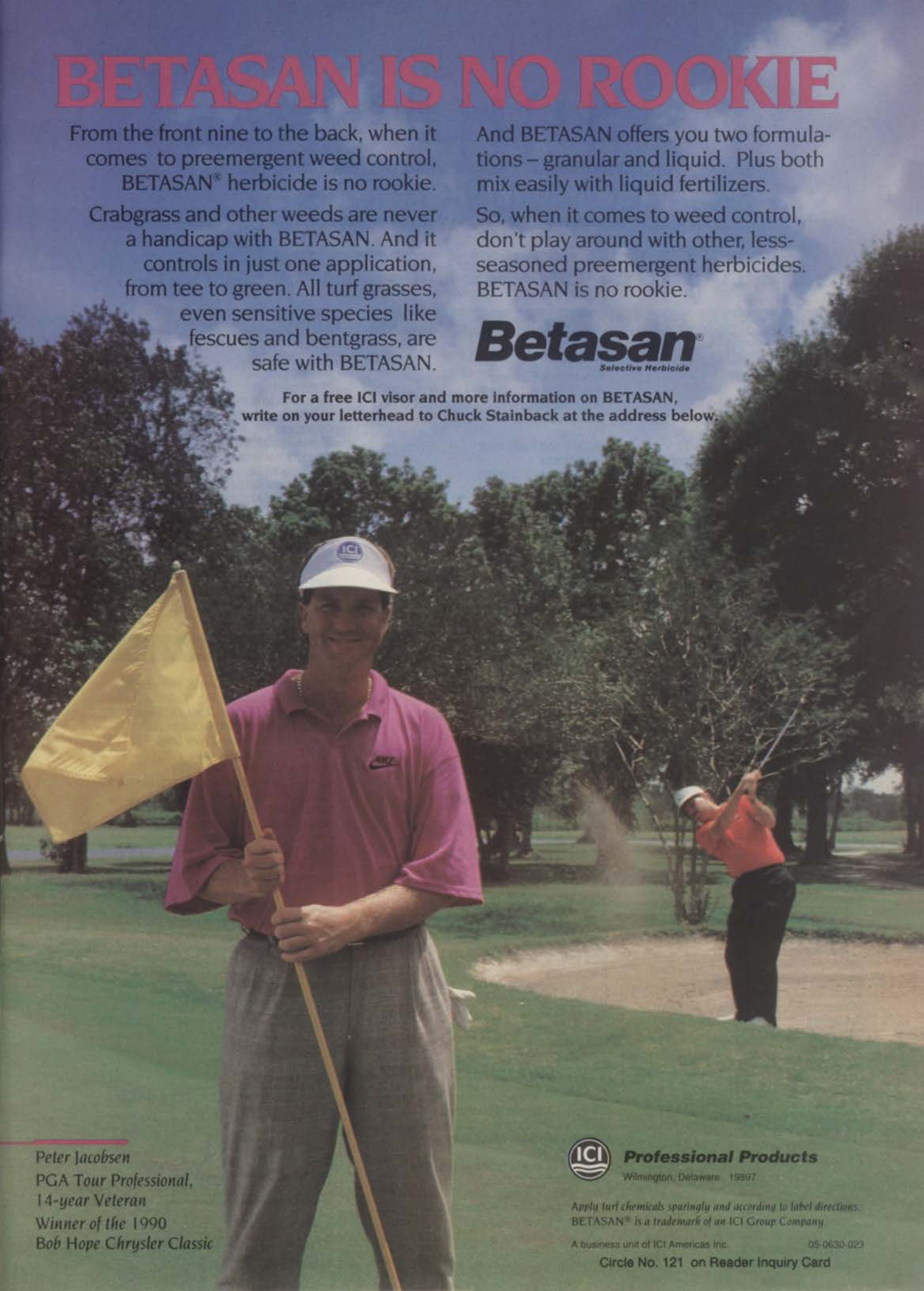
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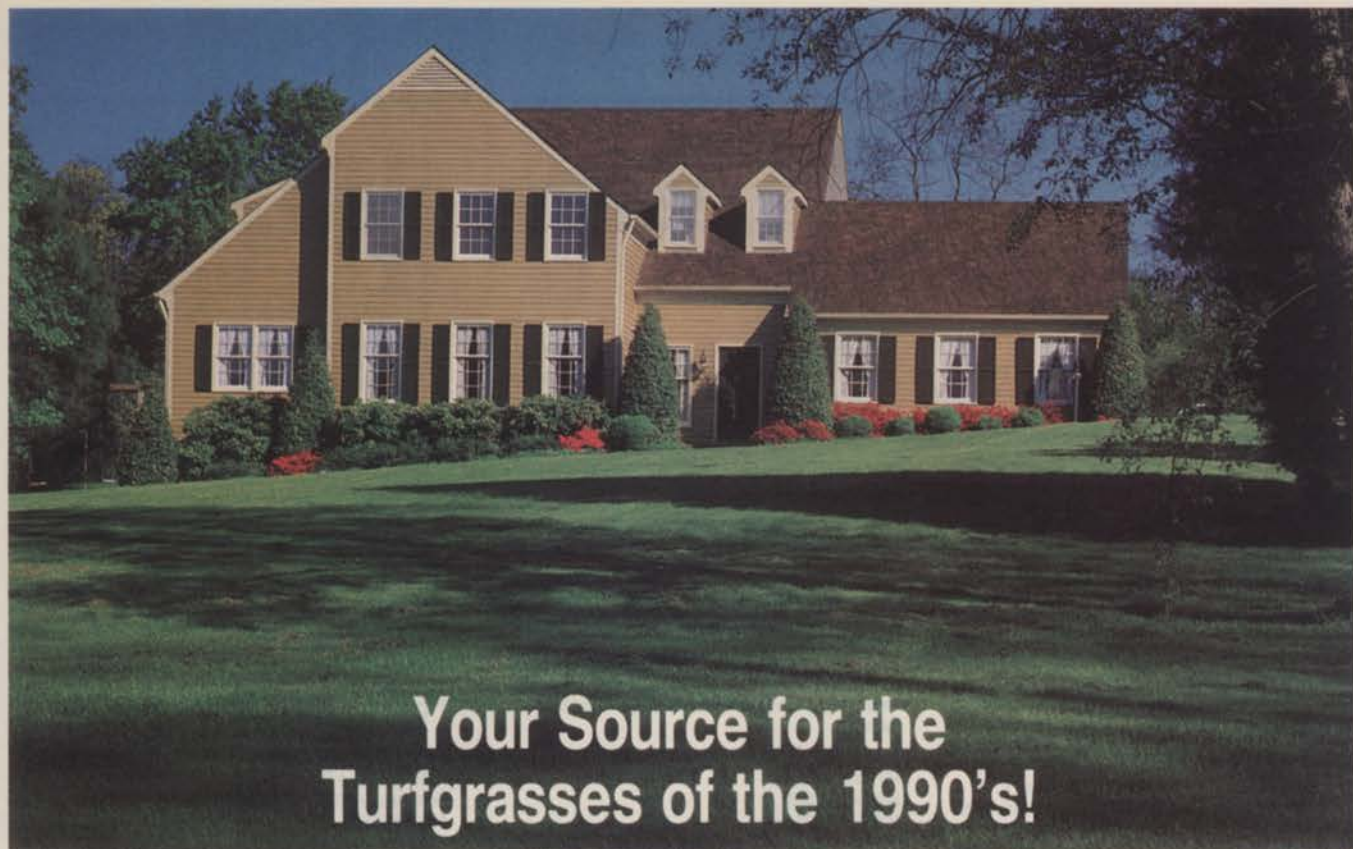
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Kentucky Bluegrasses: Baron, Gnome, Haga, Majestic,
Midnight, Nassau, Sydsport Reubens Canada;
Perennial Ryegrasses: Barry, Yorktown II, Palmer,
Gator; Fescues: Biljart hard, Fortress creeping red,
Highlight, Koket & Wilma chewings, Rebel & Rebel II
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

★ Pennington Enterprises Inc
1280 Atlanta Hwy
Madison GA 30650
404-342-1234

Kentucky Bluegrasses: Chateau, Huntsville; Perennial
Ryegrasses: Sunrise 246, Pebble Beach, Stallion,
Triple Play; Fescues: (Tall) Finelawn, Finelawn 5GL,
Wrangler (Creeping) Flyer; Turfseed Mixes or Blends:
Triad Turf Type Tall Fescue, Pennington Green (varies
by region)



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TALL FESCUE TURF-TYPE

Still the Tall Fescue of Choice Among Discriminating Turfgrass Users!

A proven performer on home lawns, sod farms, athletic fields or wherever attractive, tough, reduced maintenance turf is required. With its exceptional dark green color, heat and drought tolerance and disease resistance, BONANZA is a year in, year out performer. BONANZA sets a standard by which others are compared.

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Beauty and Durability for a Superior View!

All the outstanding qualities you expect from a premium perennial ryegrass plus unexcelled resistance to stem rust. Used alone or in combination with other ryegrasses, bluegrasses or fine fescues, VANTAGE is a solid performer with a wide range of uses and areas of adaptation.

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The Reduced Maintenance Approach to a Well-Groomed Lawn

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INCORPORATED

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Phone: (503) 585-7033 • Fax: (503) 585-3273

Circle No. 145 on Reader Inquiry Card

Seed Companies

continued

Peterson Seed Co
PO Box 346
Savage MN 55378
612-445-2606

Kentucky Bluegrasses: Monopoly, Classic & Eclipse

Pickseed Canada Inc
Box 126
Richmond Hill ON Canada L4C 4X9
416-884-1147

Kentucky Bluegrasses: Pickseed Canada Inc; Perennial Ryegrasses: Pickseed Canada Inc; Fescues: Pickseed Canada Inc; Bentgrasses: Pickseed Canada Inc; Turfseed Mixes or Blends: Pickseed Canada Inc; Other Turf Seed: Pickseed Canada Inc

Pickseed West Inc
PO Box 888
Tangent OR 97389
503-926-8886

Kentucky Bluegrasses: Alpine, America, Touchdown, Banff, Bronco; Perennial Ryegrasses: Fiesta II, Blazer II, Dasher II, Jazz, LEX 86, Pick 715; Fescues: (Tall) Mustang, Maverick II, Thoroughbred, Shortstop; (Tall) Crossfire; (Chewings) Agram, Victory; (Hard) Spartan, Tournament; (Sheep) Azay; (Creeping) Jasper; Bentgrasses: Exeter colonial, Kingstown velvet, National creeping, Pennncross, Penneagle, Pennlinks creeping; Turfseed Mixes or Blends: Futura 2000, Fiesta II, Dasher II, Blazer II, Futura Plus (Fiesta, Dasher, Blazer), Team (Mustang, Maverick II, Thoroughbred); Other Turf Seed: Colt poa trivialis, Flowers 'n' Flowers wild flower mix, Flowers 'n' Grass mix

★ Proprietary Seeds Inc
2882 Howell Prairie Rd NE
Salem OR 97305
503-585-7033

Fax 503-585-3273

Perennial Ryegrasses: Vantage; Fescues: Bonanza, Crew-Cut "dwarf type"; Turfseed Mixes or Blends: Magnum brand perennial ryegrass blend (Vantage, Citation II)

Roberts Seeds
33095 Hwy 99 E
Tangent OR 97389
503-926-8891

Kentucky Bluegrasses: Estate, Marquis, Rugby; Perennial Ryegrasses: Calypso, Riviera, Pennfine; Fescues: (Tall) Chiefton, Guardian; Turfseed Mixes or Blends: Playmate per ryegrass blend, Prism Ky Bluegrass blend, Maxim TT Tall Fescue blend

★ 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: Pennncross, 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
708-553-5800

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: Pennncross, Penneagle, Seaside, Highland, Exeter, Red top; Turfseed Mixes or Blends: Custom mixes; Other Turf Seed: Crown Vetch, Birdsfoot Trefoil, Native Grasses, Wildflowers, Poa Trivialis, Canada bluegrass, Fults, Reed Canary

Seed Research of Oregon Inc
PO Box 1416
Corvallis OR 97339
503-757-2663

Kentucky Bluegrasses: Harmony, SR 2000, Merit, Monopoly, Classic; Perennial Ryegrasses: SR4000, SR4100, SR4200, Nova; Fescues: (Tall) Titan, Trident, SR8200, (Chewings) SR5000, (Creeping red); Bentgrasses: SR1020, Providence; Turfseed Mixes or Blends: Trophy tall fescue, Survivor tall fescue, Dominant creeping bentgrass, Gentry + Poa Trivialis, Crusader ryegrass fescue (hars) mix

Southern Turf Nurseries
2200 Norcross Pkwy Ste 255
Norcross GA 30071
404-448-9932

Sod/Sprigs (South Only): Tifway 419, Tifgreen 328, Tifwaf, Centipede, Midiron

Sunbelt Seeds Inc
2200 Norcross Pkwy Ste 255
Norcross GA 30071
404-448-9932

Kentucky Bluegrasses: Baron, Nassau, Georgetown, Ram I, Mystic, Suffolk; Perennial Ryegrasses: Palmer, Prelude, Cowboy, Yorktown II, Repell; Fescues: Jamestown Chewings; (Tall) Rebel, Rebel II, Tribute, Clemfine, Barnone; (Creeping) Southshore; Turfseed Mixes or Blends: Marvel Green Supreme, Marvelgreen

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Medalist Turf Products, NK, P.O. Box 959; Minneapolis, MN Northrup King 55440 612-593-SEED

Circle No. 288 on Reader Inquiry Card

Seed Companies

continued

Classic, Marvelgreen & Laser, Marvelgreen 3 +1, Marvelgreen Transition, Marvelgreen Sports Mix; Other Turf Seed: Pinto Wildflowers, Centipede, Hulled Bermuda, Weeping Lovegrass, Carpetgrass

★Tee-2-Green Corp
3017 G St
PO Box 250
Hubbard OR 97032
503-981-9571
503-981-9574
800-247-6910
800-547-0255
Fax 503-981-5626
Bentgrasses: Pennncross, Penneagle, Pennlinks, Pennway blend

★Turf Merchants Inc
33390 Tangent Loop
Tangent OR 97389
503-926-8649
800-421-1735
Fax 503-926-4435
Telex 9109970773

Kentucky Bluegrasses: Gnome, Tendos, True Blue, Chelsea, Rugby, Cobalt; Perennial Ryegrasses: Aquarius, Patriot, Pennfine, Manhattan II, Stallion, Laredo, Allaire, Rodeo; Fescues: (Tall) Wrangler, Taurus, Aztec, Bonsai, Twilight, Turfem II, Earthsave; Bentgrasses: VIP, Creeping Bentgrass blend; Turfseed Mixes or Blends: Spectrum, VIP Turf Type perennial overseeding blends; Other Turf Seed: Tropica Bermudagrass

★Turf Seed Inc
3017 G St
PO Box 250
Hubbard OR 97032
503-981-9571

Kentucky Bluegrasses: Midnight, Columbia, Challenger, Voyager, Galaxy Blend; Perennial Ryegrasses: Manhattan II, Citation II, 246 Sunrye, Charger, Alliance Blend; Fescues: (Tall) Apache, Olympic, Olympic II, El Dorado, Triathlawn, Silverado, Monarch, Murieta; (Chewings) Shadow; (Hard) Aurora; (Creeping) Fortress, Shademaster; Big Horn Sheeps; Bentgrasses: Pencross, Penneagle, Pennlinks, Pennway, Pentrio- No "OFF" Brands; Turfseed Mixes or Blends: Galaxy Kentucky Bluegrass, Alliance Perennial Ryegrass, Triathlawn Tall Fescue, Penntrio Creeping Bentgrass

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Excellent for lawns, play areas, parks, airfields, roadways, golf courses and industrial sites.

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Phone: (503) 585-1157

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Fine Fescue
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PO Box 250 • Hubbard, OR 97032
503-981-9571 • FAX 503-981-5626

Vanderhave Oregon Inc
33725 Columbus Ave SE
PO Box 1469
Albany OR 97321
503-967-8923

Kentucky Bluegrasses: Sophia, Minstrel, Cynthia, Asset, Parade, Geronimo; Perennial Ryegrasses: Ranger, Brenda, Nova, Mondial, Dimension; Fescues: (Chewings) Waldorf, Epsom, Atlanta, Mary, Molinda; (Creeping) Dawson slender Creeper; (Tall) Sapphire; (Hard) Scaldis, Silvana; Bentgrasses: (Creeping) Carmen; (Colonial) Tracenta; Turfseed Mixes or Blends: Quartetperennial ryegrass mixture (Mondial, Brenda, Dimension, Nova or Ranger)

Vaughan Seed Co
5300 Katrine Ave
Downers Grove IL 60615
312-969-6300
Kentucky Bluegrasses; Perennial Ryegrasses

Vaughan's Seed Co
Chimney Rock Rd
PO Box 469
Bound Brook NJ 08805
201-356-4200
Kentucky Bluegrasses; Perennial Ryegrasses

Circle No. 128 on Reader Inquiry Card

Colorize Your Landscape



Deep, dark, lush, vibrant, greens, the finest texture... TMI has the turf grass varieties that will liven up your landscape. In fact, in a recent national turf trial, TMI had the #1 varieties for both dark color and fine texture.

Years of trials and research have developed turf varieties that require less fertilizer, produce less clippings, have endophytes for insect resistance, and because of extensive root systems, require less water.

On your next landscape project, specify the turf grass varieties that will give your lawn an improved appearance with less care...the top turf grass varieties from Turf Merchants.

Circle No. 155 on Reader Inquiry Card



TURF MERCHANTS

33390 Tangent Loop • Tangent, OR 97389 • (503) 926-8649
Fax: 503-926-4435 • Outside Oregon: 800-421-1735

Seed Companies

continued

Warren's Turf Nursery Inc
3773 Chadbourne Rd
PO Box 459
Suisun City CA 94585
707-422-5100
Kentucky Bluegrasses; Fescues

Willamette Seed Co
PO Box 791
Albany OR 97321
503-926-2728

Kentucky Bluegrasses: Merit, Julia, Classic; Perennial
Ryegrasses: Ranger, Seville, Caliente; Fescues:
Willamette, Shannandoah; Bentgrasses: Pencross,
Pennlinks, Penneagle; Turfseed Mixes or Blends:
Southern Select overseed blend of Ranger, Seville &
Caliente

Zajac Performance Seeds
33 Sicomac Rd
North Haledon NJ 07508
201-423-1660

Kentucky Bluegrasses: Eclipse, Liberty; Perennial
Ryegrasses: Omega II, Saturn; Fescues: (Tall) Jaguar/
Jaguar II, Emperor; Vista Spreading Red

Air-O-Lator Corp
8100 Paseo
Kansas City MO 64131
800-821-3177
Floating fountains

★Amsoil Inc
924 Tower Ave
Superior WI 54880
715-392-7101
Synthetic lubricants

C D Anderson
515 Ogden Ave
Downers Grove IL 60515
312-964-0399
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Bush and Cook Leasing Inc
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Wilmington OH 45177
513-382-5502(OH)
800-342-4784
Equipment leasing/financing

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2255 Lava Lane
Alamosa CO 81101
719-589-4925(CO)
800-528-2765
Decorative rocks (landscape supplies)

Environmental Industries Inc
24121 Ventura Blvd
Calabasas CA 91302
818-992-5900
Landscape services

G E Mobile Communications
Mountain View Rd
Lynchburg VA 24502
800-GE1-2345
Mobile radios

Hammer's Plastic Recycling Corp
RR 3 Box 182
Iowa Falls IA 50126
515-648-5073
Manufacturer of recycled plastic products

★Miller Electric Mfg Co
1635 W Spencer St
PO Box 1079 (54912)
Appleton WI 54914
414-734-9821
Welding equipment for maintenance & repair

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1201 N High St
Millville NJ 08332
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800-257-7034
Sands, clays and specialty mixes

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Div Mantek
PO Box 2170
Irving TX 75061
800-241-3302
404-952-0228(GA)
Grounds care technology

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Cleveland OH 44120
216-231-8590
800-662-6338
Fax 216-231-2702
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lights and sandbags

Safety Storage
2380 S Bascom Ave
Campbell CA 95008
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800-344-6539
Fax 408-559-3218
Hazardous chemical storage buildings

ServiceMaster LawnCare
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Memphis TN 38139
901-684-7560
Franchised lawn & tree care

★Telmark Inc
Box 4943
Syracuse NY 13221
Agri-lease

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

★Uni-Group USA
4362 Northlake Blvd Ste 109
Palm Beach Gardens FL 33410
407-626-4666
800-USA-1UNI
Concrete paving stones

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12429 Cedar Rd
Cleveland OH 44106
216-791-5050
800-544-2737 hear tone 38
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6. Miscellaneous Companies

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

Turn Your Green Thumb Into Greenbacks.

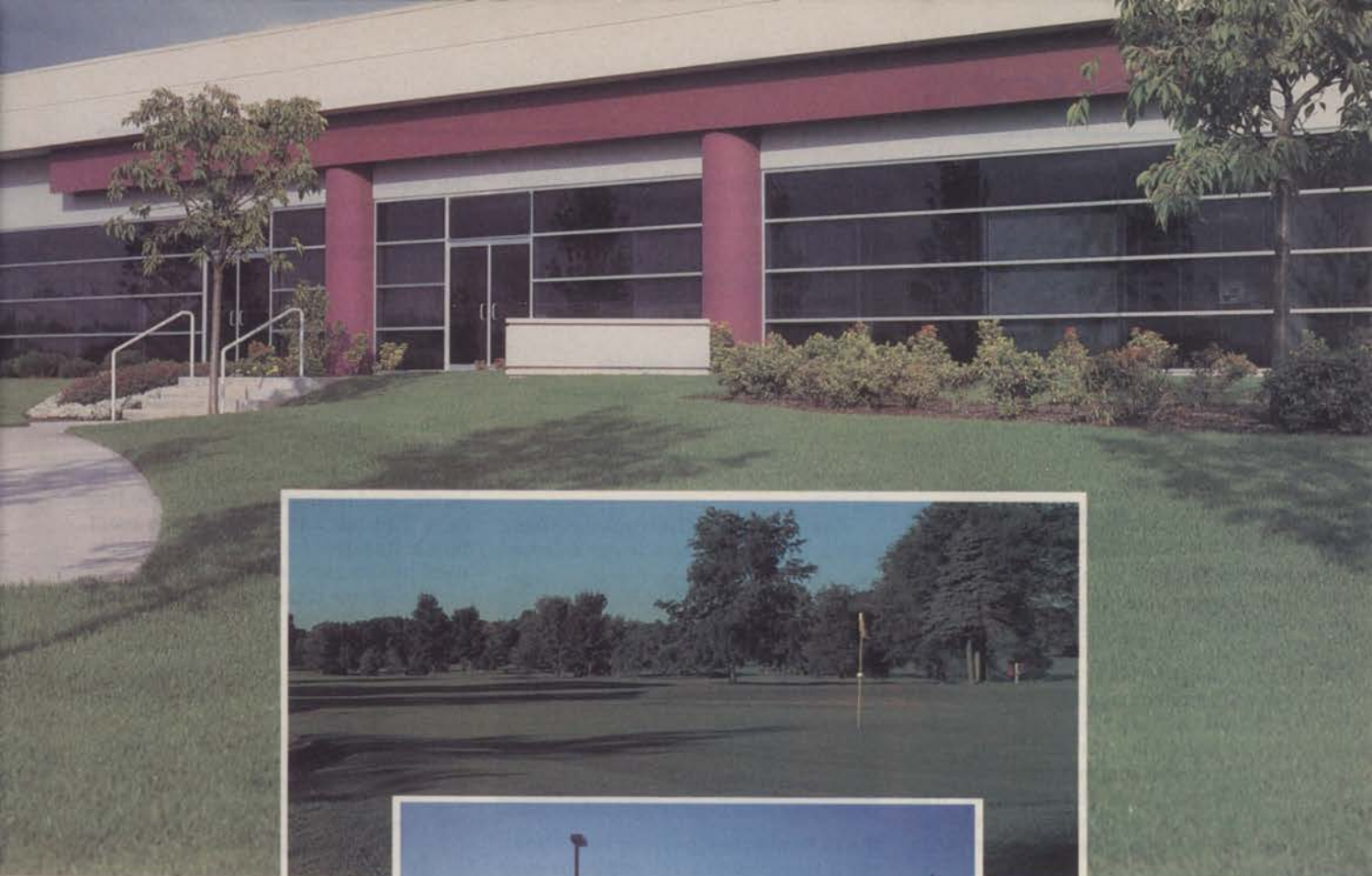
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Circle No. 139
on Reader
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Across the country, Pennant's performance in turf trials speaks for itself. Pennant is a true champion. Pennant has rated best over other varieties of perennial ryegrass, including overseeding dormant Bermuda grass, extreme heat-drought stress, resistance to sod



PENNANT
PERENNIAL RYEGRASS

"The Trophy Turf"

web worm, winter injury, red thread and brown patch disease.

Pennant was also found to maintain its excellent turf color and quality late into the season. Pennant will impress you with its rich, moderately dark green color, its fine leaf blades and its improved mowing properties.

When your reputation counts on the turf you grow ... the obvious choice is Pennant.



E.F. Burlingham & Sons.

P.O. Box 217 • Forest Grove, OR 97116
(503) 357-2141 • Telex: 36-0274
Cable: Burlingham
FAX: (503) 359-9223

Circle No. 104 on Reader Inquiry Card

PRODUCTS

Computer system adds point of sale feature

Thornton Computer has developed the "Smart" Point-of-Sale register to its Slice 5 system for retail garden centers.

The new register includes a cash drawer, credit card reader, bar-code reader, receipt printer and pole display.

Circle No. 191 on Reader Inquiry Card

Software is designed for architects, contractors

Landcadd Light is a blend of Landcadd's most popular pieces of computer software for site planning, landscape design, and irrigation design, complete with the ability to do takeoffs and schedules.

Landcadd Light is said to be designed especially for architects, civil engineers and contractors.

Landcadd says the software was written to integrate with any architectural or civil package based on Auto Cad.

It is compatible with all third-party Auto Cad applications, including the other Landcadd modules. Layering is automatic, and time-saving keyboard macros are included.

Light also provides the tools to create an irrigation plan.

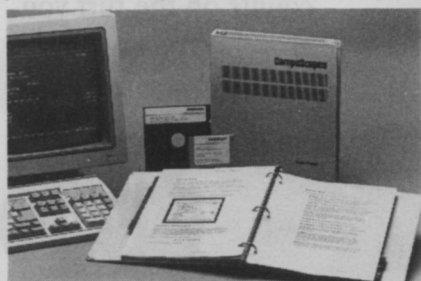
Circle No. 192 on Reader Inquiry Card

Job costing, estimating among many functions

CompuScapes has announced the release of its Landscape Contractor Software, version 2.0.

The new version includes Job Services, which allows for creation of schedules for maintenance, chemical application, or any other service your customer requires.

Job Services includes automatic job scheduling, standard service pro-



grams, job route sheets for crews, automatic invoicing on a "Per Service" or "Fixed Contract Basis," and total integration with the rest of the system.

CompuScapes will run on a single-user IBM compatible system, multi-user networks or multi-user Unix/Xenix systems.

Circle No. 193 on Reader Inquiry Card

Utility vehicles given innovative improvements

Columbia ParCar's Columbia Utilitruck and Columbia Shuttle have been improved for better field performance.

The Columbia Utilitruck now has a dump body. A single lever releases



the 13.8 cubic feet payload box, allowing it to swing to a 75° angle for easy unloading.

Standard features include four traction turf tires, a 14-gallon payload box, a durable payload box bedliner, and an exclusive safety directional key switch. The key switch feature eliminates having to operate directional levers.

The trunk storage feature of the Columbia Shuttle vehicle can be used for tools or luggage. The Shuttle vehicles have a standard lift-out battery pack tray for continuous use and an on-board automatic electric charger.

Circle No. 194 on Reader Inquiry Card

Time and expense tracking a feature

Timeslips, III, is a time and expense tracking, professional billing system that features a desk accessory timer module. Designed for lawyers, consultants, accountants and other service professionals, Timeslips III retails for \$299.95. It tracks a total of 2,000 clients, 250 professionals and 250 activities.

When incorporated with the TSTimer, Timeslips can record time and expense charges and track all daily activities while using other applications.

TSReport produces invoices, reports, and graphs from the time and expense records created.

Standard productivity reports include client billing worksheets, bill-

ing history report, user-defined report, matter/project report, detail and summary report.

Circle No. 195 on Reader Inquiry Card

New suspension highlights golf car's many features

Yamaha's 1990 G8 Fleet Classic has been designed with the UltraPath three-link rear suspension system.

The system reduces the shock from bumps and changes in golf course terrain. The left and right wheels react much like the independent systems used by the auto industry.

The three links in the UltraPath system cradle the rear portion of the



frame, allowing the back axle to "float" semi-independently, thus reducing the amount of shock absorbed by the frame and the passengers.

Included are an independent A-frame front suspension system with variable coil springs and shocks on each wheel.

Circle No. 196 on Reader Inquiry Card

Utility vehicle line versatile and practical

The Club Car line of utility vehicles can be taken almost anywhere, and performs well in a variety of turf maintenance applications.

The Carry All II is a heavy-duty gas model powered by a four cycle/341 cc engine. It comes with a durable double-walled aluminum pickup bed.

The Carry All I is ideal for small space operations as its self-adjusting rack-and-pinion steering allows for the tightest clearance circle of any four-wheel vehicle in the industry, according to Club Car, of 17'6". It is available in a gas or electric model.

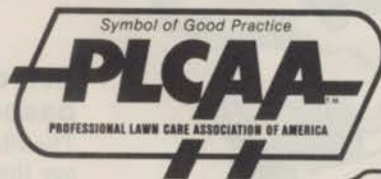
The Tour All is the newest Club Car vehicle. It is a personnel carrier

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You asked for it, and now it's here – Nov. 12-15, 1990! One Show for the lawn/landscape industry starring the "big three" of the industry -- the **Professional Lawn Care Association of America**, the **Associated Landscape Contractors of America**, and the **Professional Grounds Management Society**, have combined their separate annual exhibitions into one grand showcase of products. **Green Industry Expo/90** does away with the old 'Which Show offers the most for my business?' decision. Now there is **one** Show, bigger and better than ever, and your best opportunity to see all that's new.



TWO GREAT CONFERENCES...

Green Industry Expo/90 offers TWO separate conferences and educational programs to choose from. Register and attend the program that targets the specific needs of your business:

Professional Lawn Care Association of America

The 11th Annual PLCAA Education Conference will have a wide variety of topics including: Business Problems-Solving, Customer Satisfaction, Employee Retention, Health & Technology, Ground Water Issues, Management Techniques, Effective Pest Control Programs, Landscape Services, and Business to Business Roundtables.

Keynote Speaker Michael LeBoeuf talks on 'Winning Customers and Keeping Them for Life.' Mail the coupon below today for details and registration information.

Landscape and Grounds Management Conference

This year's ALCA/PGMS Landscape and Grounds Management Conference features the latest information on a multitude of topics including: Training for the '90s, Customer Service, Plant Material That Warrants Attention, Maintenance and Cost of Utilizing Wild Flowers, Sports Turf and Strategies to Increase Your Bottom Line. The Keynote speaker, Allan Cimberg, will give a presentation, 'How to Sell in Tough Times to Difficult People.' Mail the coupon below for more details and registration information.

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Phone: 404-977-5222 for information

available in gas or electric. The Tour All features a true balance suspension system with self-adjusting rack and pinion steering to deliver a true power steering feel and a 17'6" clearance circle.



Circle No. 197 on Reader Inquiry Card

Snow removal easy with plow attachment

A hydraulic angle dozer blade is great for snow plowing and other small-medium dozing jobs, says J.I. Case. The Uni-Loader attachment has a 21-inch high blade that cuts a 6-foot swath.

When operated at an angle, the plowing track is 5½-feet.



When used with the Case Coupler system, the blade is easily attached to Model 1835C, 1840C and 1845C Uni-Loaders.

Circle No. 198 on Reader Inquiry Card

Easy plant selection with new software program

PlantArc, Inc., of New York has introduced LandScapes, a program that allows landscape architects and designers, garden centers and nurseries to quickly and easily select plants for their home or business.

LandScapes has a data base which describes the characteristics and growing conditions of over 1600 commercially-available trees, shrubs, perennials, vines and groundcover.

Users can access the database by searching for selected plants by name, by design criteria, or by plants which match specific growing conditions.

"Our software is the most comprehensive landscape design product on the market because it was written and programmed by professionals in the fields of landscape architecture and botany," says James Greaves, chief executive officer of PlantArc.

Circle No. 199 on Reader Inquiry Card

Select and identify plants based on their description

The PlantDat is a new software package that allows the plant or landscape professional, researcher, nurseryman, or educator to select and identify plants on the basis of description, growing requirements, maintenance needs, and propagation methods.

PlantDat offers the landscape professional increased productivity with instant access to detailed information on over 900 plants, including xerophytes (drought tolerant), halophytes (salt tolerant), Mediterranean and semi-desert, and dry mid-latitude plants.

PlantDat is designed for use on an IBM personal computer, with 530 KB available RAM.

Circle No. 200 on Reader Inquiry Card

On-site recycling possible with vacuum

ReVac shreds, chips and loads landscape debris. Newly-designed intake hopper makes feeding lawn and



garden debris faster and easier. Prunings, saplings and small branches are processed at 5-feet per second while

the rear chute will chop limbs up to three inches in diameter.

With an intake hose option, ReVac reduces leaves at a ratio of 8:1. Waste is recycled into mulch, ornamental wood chips or compost.

The secret to ReVac is free swinging hammers passing through circular grates where material is fed. It is pulled in with the vacuuming force created by six steel fan blades.

Circle No. 201 on Reader Inquiry Card

Utility vehicle sturdy, handles big payload

The Mighty Mark is a hydrostatic, all-wheel drive utility vehicle from Salsco.

The Mighty Mark is powered by a 20 hp, twin-cylinder Kohler engine.

The rugged vehicle features heavy duty boxed beam frame and double-walled tailgate/ramp.

The Mighty Mark carries 2,000 lbs.



in a 29-cubic-foot cargo bed.

Circle No. 202 on Reader Inquiry Card

Cultivator aerates, dethatches and edges

The mantis cultivator from Little Wonder features 9-inch wide spring steel tines that can weed shallow depths at 1 to 3 inches, or till up to 10-inches deep.

The one-piece gear housing has a grease fitting and the 2-cycle engine has electronic ignition for easy starting.

The cultivator is perfect for tight spaces, yet powerful and rugged enough for big gardens.

Optional attachments allow you to edge walkways, aerate and de-thatch



lawns, or trim shrubs.

Circle No. 203 on Reader Inquiry Card

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LANDSCAPE MANAGEMENT is written for golf course and landscape professionals, while LAWN CARE INDUSTRY satisfies the information needs of chemical lawn care professionals. Together, they provide total show and industry news coverage.

You could call their editorial and marketing teams "roadies," because they spend 50% of their time traveling to shows, tracking stories and getting candid perspectives from suppliers. Listed here is just a portion of the shows they'll be attending this year. Frankly, it's the only way to stay on top of late-breaking news and keep both books fresh and on the cutting edge of their market segments. This dedication makes them the authoritative voices on industry problems and opportunities readers need to be aware of...and explains why their competitors look like warm-up acts.

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RATES: \$1.20 per word (minimum charge, \$35). Bold face words or words in all capital letters charged at \$1.45 per word. Boxed or display ads: \$100 per column inch-1x (one inch minimum); \$95-3x; \$90-6x; \$85-9x; \$80-12x. (Frequencies based on a calendar year). Agency commissions will be given only when camera-ready art is provided by agency. For ads using blind box number, add \$15 to total cost of ad. Send ad copy with payment to Dawn Nilsen, LANDSCAPE MANAGEMENT, 1 East First Street, Duluth, MN 55802 or call 218-723-9505. Fax Number 218-723-9615.

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Two positions are currently available with **United Turf, Inc.** 1) Superintendent needed for sod operation located in Louisburg, North Carolina, thirty miles outside of Raleigh. Must have previous sod production experience and turf related degree. Warm and cool season grasses currently under production. Excellent salary and benefits available. Send resume to the attention of the Director of Operations. 2) Assistant superintendent needed for sod operation located in Powells Point, North Carolina, at the gateway to the Outer Banks. Turf related employment history a plus. Degree in agronomy or turf related field required. Warm and cool season grasses currently under production. Excellent salary and benefits available. Send resume to the attention of the Director of Operations at **United Turf Inc.**, Route 1, Box 170, Powells Point, NC 27966. 9/90

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BOZZUTO LANDSCAPING COMPANY- An expanding firm in the Washington D.C., Virginia and Maryland markets is currently looking for qualified, career oriented professionals. Opportunities are available in the following departments: **COMMERCIAL GROUNDS MAINTENANCE**: Supervisors, Crewleaders and Crewpersons. **LANDSCAPE INSTALLATION**: Supervisors, Foremen and Crewpersons. **HYDROSEEDING AND EROSION CONTROL**: Foremen and Crewpersons. Benefits include vacation and sick leave, a super health care package, disability and retirement. Send resumes to: Thomas W. Davis, 15127 Marlboro Pike, Upper Marlboro, Maryland 20772, or call 301-627-6500. 11/90

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GREEN THUMB ENTERPRISES, INC. a nationally ranked commercial landscape contractor servicing the Washington, DC; Philadelphia, PA; and Richmond, VA markets is now accepting applications for sales personnel for the Washington, DC area office. Applicants must have a minimum of 3 years management and sales experience in commercial landscape maintenance, preferably in the Washington, DC market. Excellent salary potential with comprehensive benefit package available to the right individual. Please send resume, complete with salary requirements and references to:
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Attention: M. Gerard Chauvin

KT ENTERPRISES, INC., a commercial landscape management firm servicing the Washington, DC Metropolitan market, is now accepting applications for all departments for the 1990 season and beyond. All positions offer excellent salary, health benefits, retirement and, most importantly, an incomparable opportunity to work in a quality organization that will continue to offer professional satisfaction. All applicants should be experienced. Please send resume to Martha Sharlot, KT Enterprises, Inc., 4001 Westfax Drive, Fairfax, VA 22021. **LANDSCAPE MAINTENANCE**: Floral Installation Specialists, Turf and Ornamental Specialists, Pruning Specialists, Maintenance Supervisors. **LANDSCAPE INSTALLATION**: Landscape Supervisors, Landscape Installation Foremen, Hardscape Specialists, Equipment Operators. **IRRIGATION INSTALLATION**: Installation Supervisors, Installation Foremen, Golf Course Irrigation Specialists. **SALES**: ALL DEPARTMENTS: Sales Representatives Designers, Estimators. 9/90

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PORTABLE STUMP CUTTER - 14 or 16 H.P. Mag Kohler, 4 speed transaxle - 34 1/2" wide. Kinetic Stump Cutter, Inc. 1-800-422-9344. 9/90

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Albany, OR
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(800) 547-4063

Sunbelt Seeds, Inc.
Norcross, GA
(404) 448-9932 or
(800) 522-7333

To locate the Lofts' distributor nearest you, call
(800) 526-3890 (Eastern U.S.) • (800) 547-4063 (Western U.S.)

Circle No. 247 on Reader Inquiry Card

*Limited quantities available Fall 1989. Commercially available Fall 1990.