

BOOKSTORE



375 - RESIDENTIAL LANDSCAPES
 by Gregory M. Pierceall
 An excellent reference for individuals involved in the design and development of plantings and constructed features for residential sites. Illustrations and actual residential case study examples are used to communicate graphic, planning and design concepts which are the focus of this text. **\$55.95**



220 - CONTROLLING TURFGRASS PESTS
 by Shurtleff, Feranian, Randell
 New comprehensive guide provides the most up-to-date information available on the identification, biology, control and management of every type of turfgrass pest. **\$48.95**



235 - LAWN CARE: A HANDBOOK FOR PROFESSIONALS
 by H. Decker, J. Decker
 Written by turfgrass professionals, this handy guide will be invaluable for playing field managers, golf course managers, or any lawn care practitioner. Covers all aspects of turfgrass management. **\$48.95**



640 - TURF IRRIGATION MANUAL
 by James Watkins
 A guidebook for engineers, architects, designers and contractors. Keeps pace with the latest developments in turf and landscape irrigation. Specific chapters devoted to rotary sprinkler design systems. Golf course design systems and expanded engineering and reference material. **\$29.90**



615 - TURF MANAGEMENT FOR GOLF COURSES
 by James Beard
 Written by an eminent turfgrass researcher, this USGA sponsored text is an ideal reference and "how to" guide. Details all phases of golf course design and construction, turf management, course administration, irrigation, equipment and disease and pest control. Fully illustrated. **\$74.00**



760 - TREE MAINTENANCE
 by Pascal Pirone
 The sixth edition of this guide for anyone involved in the care and treatment of trees. Special sections on tree abnormalities, diagnosing tree troubles, non-parasitic injuries and assessing the suitability of different trees. **\$49.95**



620 - TURF MANAGEMENT HANDBOOK
 by Howard Sprague
 Practical guide to turf care under both healthy and poor turf conditions. Chapters cover turf in cooler and warmer regions, fertilizer use, regular turf care, weed and disease control and special turf problems. Useful seasonal schedules for management of turf areas. **\$26.60**



225 - TURFGRASS MANAGEMENT REVISED
 by A.J. Turgeon
 Covers the latest developments in turfgrass science and technology. Heavily illustrated with dozens of new drawings. Provides specific recommendations for applying the newest pesticides, fertilizers and other materials to combat turfgrass problems. **\$54.95**



630 - TURFGRASS: SCIENCE AND CULTURE
 by James Beard
 Comprehensive basic text and reference source used in many leading university turf programs. Includes findings of current research compiled from more than 12,000 sources. **\$54.95**



110 - TURF MANAGERS' HANDBOOK-Second Edition
 by Daniel and Fraeborg
 ENTIRELY UPDATED. A practical guide for the turf practitioner. Chapters on grasses, growth regulators and diseases have had extensive modification. Innovations resulting from research and practice have been added to reflect the current techniques available for turf managers. **\$32.95**

RETURN THIS COUPON TO: BOOK SALES, ONE EAST FIRST STREET, DULUTH, MN 55802

PLEASE SEND ME THE FOLLOWING BOOKS. MY PAYMENT* IS ENCLOSED.

Book Number and Title	Quantity	Price	Total Price

Domestic—*Please add \$3.50 per order plus \$1.00 per additional copy for postage and handling.

All others—*Please add \$5.00 per order and if ordering multiple copies, also add \$2.00 per additional copy to cover postage and handling.

Please allow 6-8 weeks for delivery. Prices subject to change. Quantity rates available on request.

Questions? Call 218-723-9471 or 9472

PAYMENT MUST ACCOMPANY ORDER

Please charge to my Visa, MasterCard or American Express (circle one)

Account Number _____

Expiration Date _____

Name _____

Street Address _____

City _____

State _____

Zip _____

Phone Number () _____

Signature _____

Date _____

Total _____

Postage & Handling _____

Total Enclosed _____



Organic wetting agent offers an alternative

A new organic wetting agent and soil penetrant gives turf managers an alternative to synthetically-based products and offers several advantages over conventional wetting agents, says its manufacturer.

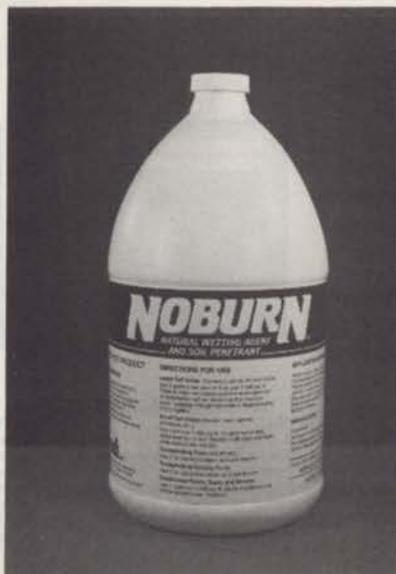
Noburn is organically based, does not burn or discolor turf or ornamental plants, and can be applied with many fertilizers and pesticides. Noburn also does not have to be watered in immediately after application.

"Noburn can be applied during the day and watered in at night during routine irrigation," says Wayne Wall, president of Roots Inc. "This product offers turf managers an effective tool for increasing watering efficiency while eliminating worries about phytotoxicity, particularly in hot, dry weather."

The wetting agent is a natural surfactant derived from extracts of the desert-growing yucca plant, first called SSO.

Dr. Keith J. Karnok, turfgrass agronomist at the University of

Georgia in Athens, tested SSO in two research studies. "In terms of burn or



discoloration, SSO appears to be quite safe regardless of rate," says Karnok, who experimented with SSO rates ranging from 16 to 128 oz.

Among Karnok's findings: SSO rates higher than 16 oz. per 1,000 sq. ft. did not result in greater effectiveness.

When combined with some commonly-used turfgrass pesticides, the University of Georgia study concluded that using SSO resulted in no phytotoxic damage to turf. "It should be remembered that this study was not all inclusive when one considers the great number of pesticides used on turfgrass," Karnok cautions.

Says Bob Wicker, president of Southeastern Turfgrass Supply, Jacksonville, Fla.: "Any time you can replace a synthetic chemical product with an organic one, some customers will be interested in the organic approach."

Florida water restrictions are also fueling interest in these products. Timely and regular use of these wetting agents can cut watering time and increase irrigation efficiency, Wicker believes.

Circle No. 191 on Reader Inquiry Card

New seed area covering easily, quickly applied

From Synthetic Industries comes Lanstrand, a polypropylene spray



product which protects against erosion in newly-seeded areas.

The firm says the foamy substance may be applied to degrade either

quickly or slowly, depending on job conditions. Application costs less than mat or blanket products, Synthetic Industries says.

The substance is non-toxic and non-hazardous. Protective gear is not needed when applying.

Circle No. 192 on Reader Inquiry Card

Turfcats lawnmower line unveiled to market

From Jacobsen comes a new line of Turfcats out-front mowers.

The line features both gas and diesel power plants from 17 to 36 hp. Three- and four-wheel drive options are also available.

The Turfcats accommodate rotary decks in 50-, 60- and 72-inch sizes and fine-cut flail decks in 50- and 60-

inch lengths.

Optional equipment includes snow thrower, brush, blade and blower attachments.

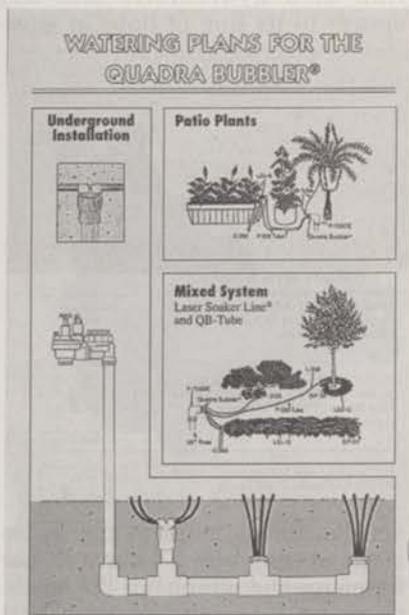


Circle No. 193 on Reader Inquiry Card

Handbook details conservation tips

Pepco Water Conservation Products,

Inc. offers a 36-page handbook on conservation techniques including drip systems, micro-irrigation,



quadra-bubbler and laser drip tube methods sold by the firm.

The handbook details specific methods of laying out various irrigation systems and offers professional tips on many facets of design.

Head designs, piping layouts, accessories and other planning steps and purchases are discussed.

Circle No. 194 on Reader Inquiry Card

Wider weed-fighting fabric rolls now marketed

WeedBlock, a fabric designed to retard weed growth in gardens and landscaped areas, now comes in four- and six-foot widths, manufacturer Easy Gardener, Inc. announces.

The geotextile blocks 95 percent of weeds while simultaneously allowing air and water to freely pass to the ground surface.

Easy Gardener says it has added the two wider rolls in response to consumer demand. The company says beds surrounding shrubs are often wider than three feet, the width of WeedBlock rolls now sold.

The firm says the wider rolls will lessen the need for piecing patches together to cover an area. The three-foot width rolls with continue to be sold.

Circle No. 195 on Reader Inquiry Card

New ornamentals herbicide is registered

American Cyanamid Co. announces its Image herbicide has received EPA registration.

The herbicide, introduced in 1987, has been used by professional turf managers to control purple nutsedge, wild onion and garlic and other weeds.

Image may now be used at labeled rates on Indian hawthorne, dwarf yaupon holly, blue pfitzer juniper, Helliery holly, red tip photinia, yucca, wax myrtle and other shrubs. Ground cover applications include Asiatic jasmine, giant lirioppe, variegated lirioppe, pachysandra and mondo grass. The product may also be used around hosta and society garlic perennials and red crepe myrtle.

The herbicide may assist in control of tall fescue, violets, crabgrass annual sedge and Virginia buttonweed.

Circle No. 196 on Reader Inquiry Card

Sprayer works with turf truckster vehicle

A new 240-gallon turf sprayer is now available from Cushman; a fifth wheel attachment designed to work in tandem with the company's Turf-Truckster vehicle.

The spray boom is self-leveling over uneven surfaces and can be adjusted from 6 to 24 inches above the

FDKEES™
SINCE 1874

**COMMERCIAL
LAWN & TURF
EQUIPMENT**

Visit us in Louisville
East Wing #2446

Kees quality commercial mowers are designed for operator comfort with fingertip control, five forward speeds with reverse, six cutting heights, extra capacity fuel tanks, optional riding sulky, large capacity grass catchers and choice of engines. Kees lawn and turf care equipment is built to last. When you're looking for quality, durability and performance in lawn and turf care equipment, look to F.D. Kees for products that are built by professionals for professionals.

FDKEES
MFG. CO. SINCE 1874

F. D. Kees Mfg. Co. • 700 Park Avenue • Beatrice, NE 68310 USA
• Phone 402-233-2391 • FAX 402-228-2258

Circle No. 129 on Reader Inquiry Card



turf surface. A high-pressure hand spray gun also comes with the unit.

The fiberglass tank resists chemical corrosion and ultraviolet rays. The trailer frame is constructed of heavy-duty tubular steel. A two-inch ball hitch connects the unit to the Turf-Truckster
Circle No. 198 on Reader Inquiry Card

Thatch reduction product tested; found safe

Bio Groundskeeper has been found non-toxic and non-irritating to eyes, says KLM Bio Systems, Inc., manufacturer of the product.

Bio Groundskeeper, which contains microbial extracts and bio-catalysts, comes in liquid concentrate form and is applied by spraying.

Tox Monitor Laboratories, Inc.,

in Oak Park, Ill., says Bio Groundskeeper made its findings earlier this year.

Bio Groundskeeping aids in speeding up natural decomposition of thatch.
Circle No. 199 on Reader Inquiry Card

38-inch rider now on the mower market

New from Husqvarna is a riding mower model 970-12 which features a 38-inch cutting deck, 1.8 gallon fuel tank and high torque 12 hp Briggs & Stratton engine. According to the company the mower has a rear wheel steering system which permits easier and tighter turning in small spaces.



The front-mounted blade empties into a side-mounted bagging unit which houses two six-bushel containers.

Circle No. 200 on Reader Inquiry Card

Hydrostatic mower added to power mower line

Ransomes has announced the addition of a hydrostatic mid-size mower to its line of Bob-Cat mow-



ers. Ransomes believes the hydrostatic system offers improved performance and eliminates the hassles commonly associated with belt-driven mowers.

A zero turning radius offers enhanced maneuverability. The line has two cutting widths, 54- and 61-inches, forward and reverse walking speeds up to 6 mph and 2 mph, respectively.

Circle No. 201 on Reader Inquiry Card

For the first time

close to home!

Featuring the Latest Materials
 And the Hottest Topics in the Industry



P.L.A.N.T.S. '91

Pennsylvania Landscape and Nursery Trade Show and Conference

August 22, 23, 1991
 Expo Mart, Monroeville, PA

For more information and registration contact:
 Pennsylvania Nurserymen's Association, Inc.
 1924 N. Second Street, Harrisburg, PA 17102
 (717) 238-1673

© 1991

Circle No. 119 on Reader Inquiry Card

Don't be a **NO SHOW** at the **ONE SHOW!**

GREEN INDUSTRY EXPO/91

The Largest Lawn/Landscape Show **EVER!!**

IN THE NEW TAMPA CONVENTION CENTER — NOV. 19-21, 1991

SPONSORED BY:



Associated Landscape
Contractors of America



Professional Lawn Care
Association of America



Professional Grounds
Management Society

Two Great Educational Conferences

Register and attend the program that targets the specific needs of your business.

**PLCAA
EDUCATIONAL CONFERENCE**

"Meet The Challenge"

EDUCATIONAL SESSIONS

Keynote Address by Special Guest
"LAWN CARE INDUSTRY CHALLENGES"

PRECONFERENCE WORKSHOPS SUNDAY NOV. 17

**ALCA/PGMS LANDSCAPE AND
GROUNDS MANAGEMENT CONFERENCE**

"Network With Industry Leaders"

EDUCATIONAL SESSIONS

Keynote address by Jay Levinson.
Author of "Guerilla Marketing Attack"
**WINNING BIG PROFITS FROM
YOUR SMALL BUSINESS**

CONFERENCE INFORMATION (404) 977-5222

CONFERENCE INFORMATION (703) 241-4004

Get Details Now... complete and return this form or Call (404) 973-2019

Send more details on:

- I'm interested in attending the show
 ALCA/PGMS Landscape and Grounds Management Conference
 PLCAA Educational Conference
 I'm interested in exhibiting

NAME _____

COMPANY _____

ADDRESS (STREET, CITY, ZIP) _____

PHONE () _____

FAX () _____

Mail to: GREEN INDUSTRY EXPO. 1000 Johnson Ferry Rd., NE, Suite C 135, Marietta, GA 30068-2112

CLASSIFIEDS

RATES: \$1.25 per word (minimum charge, \$40). Bold face words or words in all capital letters charged at \$1.50 per word. Boxed or display ads: \$105 per column inch-1x (one inch minimum); \$100-3x; \$95-6x; \$90-9x; \$85-12x. (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 \$20 to total cost of ad per issue. Send ad copy with payment to Dawn Nilsen, LANDSCAPE MANAGEMENT, 1 East First Street, Duluth, MN 55802 or call 218-723-9483. Fax Number 218-723-9437.

BOX NUMBER REPLIES: Mail box number replies to: LANDSCAPE MANAGEMENT, Classified Ad Department, 1 East First St., Duluth, MN 55802. Please include box number in address.

EDUCATIONAL OPPORTUNITIES

MOVE UP IN THE GREEN INDUSTRY. 2 year AAS Degree program in Golf Course Superintending, Irrigation Management, Landscape Contracting and Park Supervision. Fully accredited, VA approved, expanded learning facilities, new equipment. Graduate job placement assistance available. For information contact: Golf Course Operations/Landscape Technology Department, Western Texas College, Snyder, TX 79549. 9/91

SOFTWARE

BOTANICUS-Tropical Plant Encyclopedia for IBM & Compatibles. Requires 256K, color graphics, printer, hard disk (Opt). Hundreds of trees, palms, shrubs, groundcovers, grasses & weeds. For pros or hobbyists. Send \$49.95 + \$2.50 S/H to: **BOTANICUS SOFTWARE**, PO Box 39619, Fort Lauderdale, FL 33339. Includes next two releases. 7/91

HELP WANTED

TURFGRASS & GOLF COURSE MANAGEMENT INSTRUCTOR. Master's degree with 18 graduate hours in the area of Horticulture, Turfgrass Management and Agronomy. Required application form may be obtained by contacting Personnel Services, Grayson County College, 6101 Grayson Drive, Denison, TX 75020. (903)463-8625. Minorities and women are encouraged to apply. AA/EEO. 7/91

Assistant Manager needed for Sod Operation located in Louisburg, NC, 40 miles N.E. of Raleigh. Turf related employment history a plus. Degree in Agronomy or Turf related field required. Excellent salary and benefits available. Send resume to United Turf, Inc., Rt. 1 Box 170, Powells Point, NC 27966. 7/91

BUSINESS OPPORTUNITIES

Practical Marketing Techniques for the Landscape Company. A new book exclusively for the green industry. A 70+ page compilation of notes, experiences, charts, graphs, examples, case histories and just plain common sense, all geared to help the landscape company make the most efficient use of time and money to attract and retain good customers. Contains how-to information proven successful by other landscape companies nationwide. \$19.95 plus \$3 S/H. To order with MC, Visa, call 1-800-359-6647. Checks to Landscape Horticulture Center, 2509 E. Thousand Oaks Blvd., #109, Westlake Village, CA 91362. "If You Want to Grow Your Business, Buy This Book." 9/91

CURBMATE. The growth industry of the 90's is concrete landscape edging installed by the Curbmate machine. Excellent profits, low overhead, low start-up. \$5,495. Call (801)262-7509. 7/91

DISTRIBUTORS NEEDED: To handle sales & "distribution" of high quality biological fertilizers & additives for the turfgrass industry. Will provide educational & sales assistance. Call Art Germann 1-800-553-7585 for details. 8/91

CURB KING: Curbing machine that lays continuous concrete landscape borders. Financing available. Low investment, high returns. For information call 303-434-5337 or write P.O. Box 40567, Grand Junction, CO 81504. TF

LET THE GOVERNMENT FINANCE your new or existing small business. Grants/loans to \$500,000. Free recorded message: (707)448-0330. (OL8) 7/91

LEARN Professional Landscaping and Gardening at home. Accredited program provides thorough training in all phases of commercial and residential landscaping. Certificate awarded. Free booklet describes program and opportunities in detail. Lifetime Career Schools, Dept. A-480, 101 Harrison St., Archbald, PA 18403. 9/91

FOR SALE

Meyer Z-52 zoysia sod, bermuda-free, forklift delivery to the Mid-Atlantic region. Oakwood Sod Farm, Salisbury, MD 301-742-3086. 7/91

FOR SALE: Two used Brouwer Harvesters - reconditioned. Used Brouwer 7 gang manual lift mowers. New and used Roseman gang mowers and Brillion seeders. Hitch hikers, new and used in stock. New and used Kubota and Ford tractors. Land Pride Equipment. - McCord Terra Tires. Huber Ranch Sod Nursery, Inc., Schneider, IN. Phone: 219-552-0552. 7/91

BENT GRASS available for immediate pick-up or delivery. For information call Jade Run Turf and Sod Farm: 800-332-1220. 12/91

HYDRO-MULCHERS AND STRAW BLOWERS: New and used. **JAMES LINCOLN CORPORATION**, 3220 S. Jupiter Rd., Garland, TX 75041. (214)840-2440, (800)527-2304. TF

REINCO HYDROGRASSERS and power mulchers in stock. Opydyke Inc. (Philadelphia Area) 215-721-4444. TF

SPYDERS - New/Used/Rebuilt. New Kohler engines, short blocks and a complete line of engines and Spyder replacement parts. New Style Nichols-Fairfield Torque Hub Kits, heavy duty Wilton Caster Kits, Remote Air Cleaner Kits, heavy duty Carriage Side Plates. We repair and rebuild hydraulic pumps and motors for your Spyder. Same day service. Call or Write: Mobile Lift Parts, Inc., 5402 Edgewood Rd., Crystal Lake, IL 60012. 815-455-7363; 1-800-397-7509. 7/91

PAUL FLORENCE Turfgrass: Quality seed for the Turf Professional. Elite Bluegrasses, Fine-Leaf Ryegrasses, and Turf-Type Tall Fescues. Custom mixing our specialty. Silva-Fiber mulch and supplies for hydro-seeders. Quality Elite Bluegrass Sod. Call us! (513)642-7487. 13600 Watkins Rd., Marysville, OH 43040. TF

Meyers Zoysia Sod, sprigs, row planting, strip sodding, solid sodding, fairway renovations, complete turn-key jobs. 16 yrs. golf course experience. 1-800-458-4756, DOUBLE SPRINGS GRASS FARM, Searcy, Arkansas. TF

Jacobsen HF5, Lightweight Fairway Mower, diesel, sharpened, \$7,900. Toro Greensmower, sharpened, \$3,300. Jacobsen Greensmower, sharpened, \$3,300. '86 Ransomes 213-D, Kubota Diesel, sharpened, \$7,500. '85 Jacobsen 5 gang Hydraulic Fairway Mower with Power Pac, sharpened, \$5,250. Jacobsen Blitzers 7 gang, sharpened, \$5,250. Photos available. Call for information 313-653-5695. 7/91

CASE MINI SNEAKER Irrigation Lime Layer, Boring Unit, \$5,500. Phone (402)643-4049, Dave or leave message. 7/91

High quality professional horticulture training videos. 100% satisfaction guaranteed! Call or write for a free color catalog. San Luis Video Publishing, P.O. Box 4604, San Luis Obispo, CA 93403. Tel: (805)545-5426. Fax: (805)545-5423. 9/91

PENNSYLVANIA GROWN SOD: PENNCROSS Bentgrass-Fourway Blend of BLUEGRASS-BLUEGRASS/RYEGRASS Blend-Shipped via our trucks - forklift unloaded. VICNOR FARMS, INC., Connoquenessing, PA 16027. 800-842-0461 10/91

PIPE LOCATOR INEXPENSIVE! Locates, traces underground drain, water pipe lines of clay, PVC, ABS, steel, cement. Finds sprinklers, valves, clogs. Bloch Company, Box 18058, Cleveland, Ohio 44118. (216)371-0979. TF

Finn Hydroseeders, Mulch Spreaders, Krimpers, Pit Burners, Fiber Mulch & Tackifiers. New & Used. Wolbert & Master, Inc., P.O. Box 292, White Marsh, MD 21162, 301-335-9300, 1-800-234-7645. TF

FREE CATALOG - Complete line of COMMERCIAL WALK BEHIND MOWER PARTS, AIR FILTERS, BLADES, WHEELS, TIRES, GRASS CATCHERS AND ACCESSORIES. Call 1-800-666-5344, Akron Landscape Supply. 7/91

FOR SALE: Landscaping, Maintenance, tree service, and supply business Southwest Pennsylvania. All trucks, equipment and accounts included. 3 Dumps, 14X4 P.U. Snow plows, Cinder Spreader, 1 Hi-Lift. Bucket truck and Chipper, mowers, lawn tractors and miscellaneous equipment. Asking \$50,000. Serious inquiries only. Owner relocating for health reasons. P.O. Box 794, Indiana, PA 15701. 7/91

LAWN SEED: Wholesale. Full line of top quality grasses. Improved bluegrass varieties, tall fescues and fine bladed ryegrasses. We specialize in custom mixing. Ollger Seed Company, 89 Hanna Parkway, Akron, OH 44319. Call collect (216)724-1266. TF

FOR SALE - HYDROSEEDER - FINN TITAN 3000: Very good condition. John Deere diesel engine with 800 hours. Mounted on a 1978 Mack 685. \$32,000. 216-539-4450. 7/91

ADVERTISER INDEX

NO. ADVERTISER	PAGE NO.	NO. ADVERTISER	PAGE NO.
128 B.A.S.F. Corp.	43	121 Spectrum Products	28
101 Deere and Co., John	2-3	122 Stanley Tools Div. of The Stanley Works	16-17
102 DowElanco/Surflan	15	126 Tecumseh Products Co.	27
103 DowElanco/XL	39	123 Tee 2 Green Corp.	CV2
129 F.D. Kees Manufac- turing,	55	214 Turf Seeds, Inc.	5
124 Femco, Inc.	13	127 Wood Div. of Hesston Corp.	19
105 Finn Equipment Corp.	22	New Products	
104 Foresight Products, Inc.	47	196 American Cyanamid Co.	55
255 Green Industry Expo	37	198 Cushman	55
107 ISK Bio Tech. Corp.	20-21	195 Easy Gardner, Inc.	55
108 Jacklin Seed Co.	45	200 Husqvarna	56
109 Jacobsen Div. of Textron	41	193 Jacobsen Div. of Textron	54
110 Kubota Tractor Corp.	49	199 KLM Bio Systems, Inc.	56
111 Lofts Seeds, Inc.	CV4	194 Pepco Water Conser- vation Products	54
112 Mobay Corp./Dylox	37-35	201 Ransomes, Inc.	56
113 Mobay Corp./Dylox	6-7	191 Roots, Inc.	54
114 Mobay Corp./Tempo	30-31	192 Synthetic Industries	54
115 Monsanto Co.	23		
116 Nor Am Chemical Co./ Banol	35		
117 Nor Am Chemical Co./ Turcam	CV3		
118 PDC Consultants	13		
119 Pennsylvania Nurserymen's Association, Inc.	56		
120 Reemay, Inc.	29		

This index is provided as an additional service. The publisher does not assume any liability for errors or omissions.

NEW AND USED BROUWER EQUIPMENT: Mowers - VACS - Fork Lifts - Harvesters - and full line of replacement parts. USED PRINCETON and SPYDER FORKLIFT. Contact Ed, Glenn or Pat Markham at 1-800-458-3644. TF

SERVICES

TRAINING PROGRAMS: Effectively train your new and experienced employees in the least amount of time with minimal management involvement. Complete weekly lesson packages including handouts, quizzes and documentation forms. Train at your location, at your convenience. Topics include pesticide safety and handling, agronomic and horticultural issues, customer service and sales, driver safety and more. Both lawn and tree and shrub care programs available. Recertification credits often available. Pesticide Control Technology Services. Call Paul Skorupa at 401-294-1384. 7/91

ATHLETIC FIELDS REBUILT: Baseball, Football, Soccer Fields rebuilt and sodded with **BLUE-GRASS SOD**- A 160' X 360' Field \$20,000. Plus or minus 20% within 150 miles of Pittsburgh. **CONSULTING** on improving and maintaining existing fields. **VIGNOR FARMS**, Connoquenessing, PA 16027. 800-842-0461. 10/91

USED EQUIPMENT

NEW and USED EQUIPMENT--Asplundh, Hi Ranger and Lift-all forestry bucket trucks, Chipmore wood chippers. Mirk, Inc., (216)669-3567, (216)669-3562, 7629 Chippewa Road, Orrville, Ohio 44667. TF

BUCKET TRUCK: Hi Ranger 65', 57', 50'. Skyworkers with chip boxes. Asplundh bucket trucks with chip boxes. Asplundh brush chippers. Bean 55 gal. sprayers. Pete Mainka Enterprises, 633 Cecilia Drive, Pewaukee, WI 53072. 414-691-4306. TF

BUCKET TRUCKS, Straight Stick, Corner Mount and Knuckle Boom Cranes. Brush Chippers - New Asplundh (Morbark Disc Type), New Asplundh Drum Type. Best prices anywhere. Used Chippers - Asplundh, Woodchuck, etc. 2 to 8 usually in stock. Sprayers, Dumps, Stakes, Log Loaders, Crew Cab Chip Box Dumps, Railroad Trucks, 50 in stock. Sold as is or reconditioned. Opdyke's, Hatfield (Philadelphia Area) 215-721-4444. TF

MISCELLANEOUS

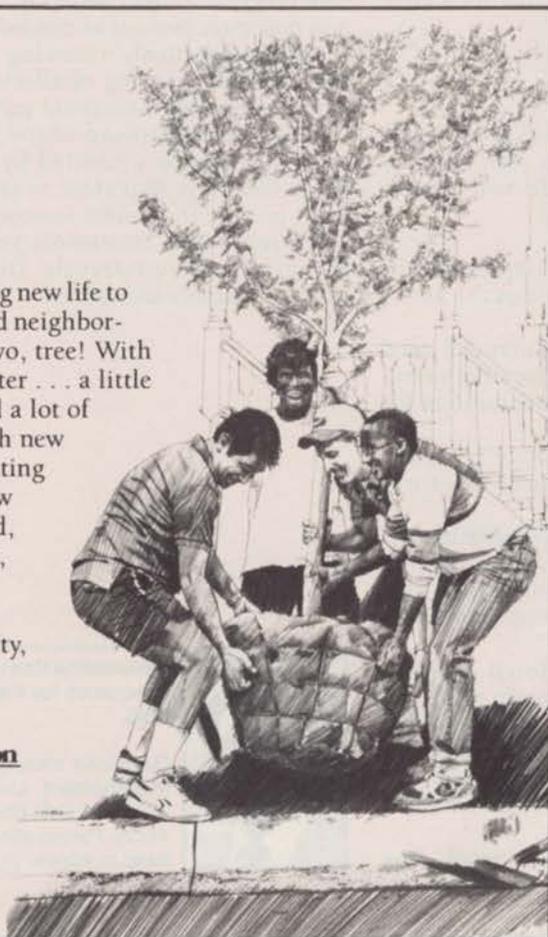
FREE PARTS CATALOG-- If you own a 36"-48"-52" walk behind mower and you feel you're paying too much for parts, call Preco Distributors toll-free and request our parts catalog. **BELTS, BLADES, GRASS CATCHERS, WHEELS AND LOTS MORE!** Replacement parts that fit: **BOBCAT, BUNTON, KEES, EXMARK & OTHERS.** 1 day shipping coast to coast available. All parts carry a 90-day warranty. Don't wait, call 24 hours a day. **TOLL-FREE 1-800-428-8004, in Mass. 413-596-5505. PRECO DISTRIBUTORS, 97 Center St., Ludlow, MA 01056. TF**

FREE CATALOG of training videotapes including Irrigation, Pesticide Use & Safety, Arboriculture, Equipment Maintenance, Pruning, Plant Selection, Fertilizers, Planting Techniques, Turf Management, Xeriscape, Landscape Design. **\$5.00 Sample Video** includes \$10 Discount Coupon. Satisfaction Guaranteed! Check, Visa, MasterCard. VEP, California Polytechnic State University, San Luis Obispo, CA 93407. 1-800-235-4146. 8/91

Turn A New Leaf

Bringing new life to the old neighborhood is as easy as one, two, tree! With the help of our city forester . . . a little muscle and sweat . . . and a lot of fun, we're bringing a fresh new look to our street by planting trees. You can turn a new leaf in your neighborhood, too. For your free booklet, write: Tree City USA, The National Arbor Day Foundation, Nebraska City, NE 68410.

 **The National
Arbor Day Foundation**



Gallery for weed control

Problem: *How good is Gallery herbicide for weed control? We understand that a fall application of this will control many weeds. (Washington, D.C.)*

Solution: Gallery 75 Dry Flowable is a pre-emergence herbicide manufactured by DowElanco. It is labelled for use on turfgrass and landscape ornamentals. This selective herbicide contains a new chemical compound, isoxaben, which controls annual grass and 44 broadleaf weeds, including chickweed, henbit, plantain, purslane, oxalis, spurge and white clover.

Reports do indicate that a fall application of Gallery can control winter and summer annuals until the end of June. It has no post-emergence activity. Apply Gallery in late summer to early fall, or in early spring, prior to germination of target weeds. Reports indicate that to manage the weeds throughout the summer, the late fall application should be followed with an early spring application. If the application is done in the spring, it should suppress weeds throughout summer.

Gallery can be used on warm- and cool-season turfgrass. Established turf may be reseeded in the fall after a spring application of Gallery. Gallery is reportedly compatible and can be tank mixed with other herbicides registered for use on turfgrass. Gallery is stable on the soil surface for up to 21 days. To be effective, it must be activated with 0.5 inches of rainfall or irrigation.

Read and follow label specifications for better results.

Mountain turfgrasses

Problem: *We have had problems establishing lawns in mountain areas, about 100 miles southwest of Charlotte. What kind of grass would you recommend for planting? (North Carolina)*

Solution: Try using a mixture of two improved turf-type tall fescue varieties (45 percent each) and a Kentucky bluegrass (10 percent).

Properly cultivate and grade the intended seed bed. Consider a soil test by your cooperative extension service, and follow its recommendations for any corrections of pH or other factors.

March is the ideal time to incorporate phosphorus since surface-applied phosphorus does not move in soil.

Use clean, certified seeds with good germination rates. Using a rotary or drop spreader, spread half of the recommended rate of the seed mixture in one direction, and the other half in the opposite direction for the most uniform coverage.

Gently pull a leaf rake upside down over the seeded area. It is important to maintain seed and soil contact for proper germination and establishment. Then, spread straw (not hay) mulch, no more than 1/2-inch thick, over the seeded area. Keep this area moist but not wet throughout the germination and establishment period.

Tall fescue will germinate within a week. The

bluegrass may take two to three weeks to germinate. Germination and establishment depends on adequate moisture. Therefore, it may take a long time under certain conditions. If at all possible, delay the pre-emergence and post-emergence herbicide application until the turf established well. Maintain the turf through proper plant health care practices, such as proper watering and fertilizing and pest management as needed.

Diplodia: a refresher

Problem: *Do you have information on diplodia tip blight, especially as found on Austrian pine? (Ontario, Canada)*

Solution: Diplodia tip blight disease, caused by *diplodia pinea* (*Sphaeropsis ellisii*), can be found on two- to three-needled pines such as Scotch, Austrian, mugo and ponderosa.

Affected plants generally produce resin droplets at the base of the needles as the first sign of the disease. During spring, emerging needles turn brown at the base. Later, the entire needle turns brown.

Quite often the candles produced during the infection year will be completely killed. If conditions for the disease are favorable, the second and third year's new growth will also be killed. As a result, there will be little or no new healthy tissue being maintained over several years. Valuable trees should be maintained with a proper plant health care program: proper watering, fertilizing, mulching and pest management as needed.

Where practical, removing two-year-old cones and selective pruning of affected plant parts when dry is extremely beneficial in reducing the inoculum and further spread of the disease. Susceptible trees also can be protected by applying approved fungicides. It is important to provide the first treatment prior to the candle emergence from the sheath. Then repeat the treatments two to three times at seven- to 10-day intervals. During rainy periods, shorter intervals are needed.



Balakrishna Rao is Manager of Technical Resources for the Davey Tree Co., Kent, Ohio.

Questions should be mailed to Problem Management, LANDSCAPE MANAGEMENT, 7500 Old Oak Boulevard, Cleveland, OH 44130. Please allow 2-3 months for an answer to appear in the magazine.