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

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

LANDSCAPING

Round house solves maintenance woes

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

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



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

wildflower mixture.

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

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

continued on page 22

Compound controls unwanted tall fescue

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

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

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

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

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



uses even when the tall fescue went into dormancy.

PRODUCTS

Carpet produces lightweight sod

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

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

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

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

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

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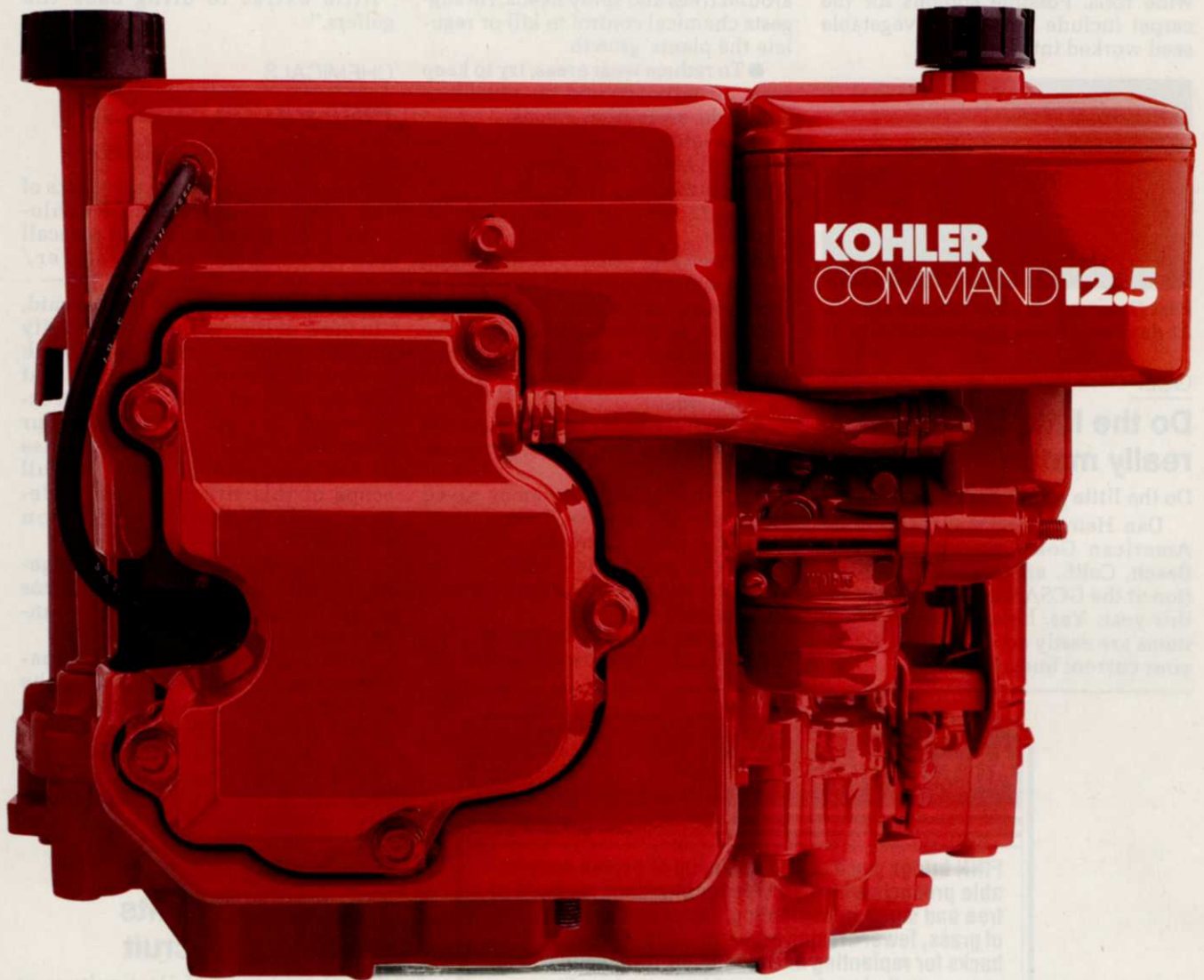
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used since the plastic underlay keeps more moisture in the root area.

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



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

GOLF

Do the little things really matter?

Do the little things really matter?

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

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

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

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

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

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

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

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

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

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

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

CHEMICALS

PBI/Gordon recalls Teremec fungicide

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

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

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

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

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

ACADEMIA

Hort departments starting to recruit

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

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

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

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

Continued on page 26

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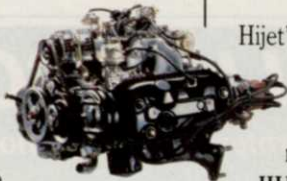
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Smeal notes that the opportunities for horticulturists are excellent since about five to 10 positions are available for every graduate.

DEALERS

Deere distributors now selling seed

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

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

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

LITERATURE

New newsletter serves landscapers

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

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

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



Gravely International

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

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A LANDSCAPERS' HOME LIBRARY

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

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

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

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

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

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

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

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

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

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

DESIGN: "The Art of Landscaping



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Hill Drive, West Nyack, NY 10994.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Center, University of Idaho, Moscow, ID 83843.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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