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Pennfine Perennial Ryegrass covers more ground than any other turfgrass variety in the world. This message recognizes the people who made it happen.

For your free full-size (22" x 28") poster of this ad, send your name and address to:
Pennfine Poster #2, P.O. Box 923, Minneapolis, MN 55440. (Watch for the other five ads in this series.)

Circle No. 148 on Reader Inquiry Card

MARCH 1983/WEEDS TREES & TURF 101

gine rider features a front mounted 42 in. mower, an 11 hp engine, automotive muffler, spring mounted seats and wide turf tires. Cutting heights are adjustable.

Circle No. 177 on Reader Inquiry Card

Cutting deck lifts hydraulically

Cushman Front Line is an 18-hp mower with 60- and 72-inch cutting decks constructed of 12-gauge carbon steel, reinforced and arc welded to with-

stand difficult cutting assignments. The engine is an OMC 18-hp twin, air-cooled, four-cycle with a hydrostatic transmission and multi-disc PTO clutch. An optional diesel is available. Forward speeds up to 7.7 mph and reverse speeds up to four mph are possible, and the mower has direct drive to the deck gear box and a sealed and lubricated telescopic drive shaft for greater durability and longer life. Optional components for snow removal and sweeping are also available.

Circle No. 182 on Reader Inquiry Card

Diesel tractors in three models

Allis-Chalmers' Simplicity Manufacturing Co. has three tractors available in two and four wheel drive models with two-cylinder, water-cooled engines. All have 12 forward speeds and three reverse speeds from three speed ranges. Standard equipment includes hand and foot accelerators, retractable drawbars, 12-volt batteries, hydraulic position control and single stage clutches. Many attachments and optional equipment are also available.

Circle No. 183 on Reader Inquiry Card

Hitches are interchangeable

Grandy Co. 30-inch and 24-inch width lawn spreaders now have optional tractor hitches interchangeable with



current push handles. The spreaders also have a shutoff reachable from the tractor, and optional jiggers to reduce bridging for spreading dry lime.

Circle No. 184 on Reader Inquiry Card

User-safe post-emergence control

Lakeshore Equipment and Supply Co. is marketing two new Dicamba Plus 2,4-D combinations. Lesco eight-one and ten-one selective herbicides provide highly-effective, cost-efficient post-emergence control of selected broadleaves. The combinations give equally fine control when used with other pesticides.

Circle No. 185 on Reader Inquiry Card

Mower is equipped with three blades

Kubota Tractor's mid-mount mower, equipped with three blades capable of cutting a 60-inch path, is designed for use with two- and four-wheel drive models of their B-8200 tractor. The RCB60-1 mower features three adjustable anti-scalp rollers and a special

Cut the Cost of Soil Management...

No other product can give you the results and still cut soil management costs like PENE-TURF Soil Treatment. PENE-TURF costs only about \$8 an acre to apply...you can treat **twice** the acreage at less than **half** the cost of similar products!

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...use PENE-TURF.



110 1/2 East Wabash St. • Bluffton, IN 46714 • (219) 824-5384

Circle No. 119 on Reader Inquiry Card

pantograph linkage mechanism with four suspension points for smooth carriage over uneven terrain. A gauge wheel can adjust cutting height at half-inch increments from 1.5-4 inches.
 Circle No. 186 on Reader Inquiry Card

Split-blade cutting increases efficiency

Brouwer Turf Equipment's sod cutter Model 10 features a 13 inch width of cut and 1/2 inch to 1-1/2 inch depth of cut. The 195 lb. cutter requires a 5 hp



engine for low fuel consumption and reduced operating costs, and has folding handles and kick stand for easy and stable transporting and storage. The split-blade cutting concept reduced vibration and increases traction.

Circle No. 178 on Reader Inquiry Card

No gears, motors or cams

Toro Co.'s Irrigation Division introduces a series of four solid state controllers that provide accurate, trouble-free control for automatic sprinkler



systems. All four have digital readouts, 0-60 minute timing per station with up to three start times, and timing accurate to one minute per month. Operation can be manual or automatic, and a rechargeable battery back-up assures

programming protection.
 Circle No. 179 on Reader Inquiry Card

Controls turf insects without chemicals

J. & L. Adikes, Inc. adds to its list with All Star perennial ryegrass. The variety is said to have a resistance to Sod Webworm and to Chinch bugs. It also has good rust resistance, is early maturing, gives reasonably good yield and has little or no fluorescence.

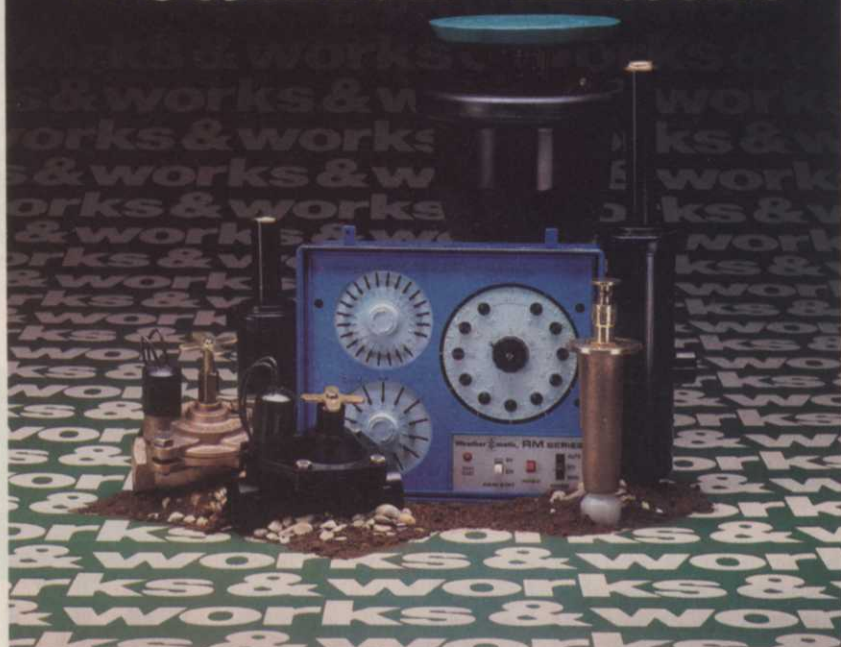
Circle No. 180 on Reader Inquiry Card

Jacobsen offers redesigned mower

Jacobsen Div., Textron Inc., presents a redesigned, mid-sized three-reel riding mower that mows up to 33 acres in one shift. Available in 76-in. or 84-in. cutting widths, the mower features a 14-hp electric-start, air-cooled engine. With a cooler operating hydrostatic transmission separate from the trans-axle, the unit has a larger vertical oil filter and a cooler.

Circle No. 181 on Reader Inquiry Card

Weather-matic



Reliability is the hallmark of Weather-matic lawn and turf irrigation systems. Every valve is pressure-tested before it leaves our factory. Every sprinkler head is designed for years of trouble-free operation. Every controller is durable, dependable and accurate. They're all designed to work together, so you can install a Weather-matic system—and forget about costly callbacks and repairs for years to come.

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 LAWN AND TURF IRRIGATION

Weather-matic • Box 18205 • Dallas, Texas 75218

Circle No. 166 on Reader Inquiry Card

GET TOUGH

on
Dollar Spot
Fusarium Patch
Leaf Spot*
Brown Patch*
Red Thread*

*Approval Pending

NY Botanical Encyclopedia Falls Short on Care

The ten volumes of The New York Botanical Garden Illustrated Encyclopedia of Horticulture are as complete as NYBG's world famous plant collection. Senior Horticultural Specialist Thomas Everett has devoted 12 years to the project published by Garland Publishing Inc.

The \$525 price tag for the series puts this reference into a "Franklin Mint" category. No doubt the appearance alone of the ten green volumes side by side on a library shelf make this attractive to many horticultural professionals and libraries.

The content is well-illustrated with drawings and both color and black and white photography. This work goes beyond the term comprehensive in the variety of plant material included, but it falls short on practical maintenance suggestions. Everett appears to have written the book more for the sophisticated hobbyist rather than the professional. Considering the experience of Everett, much more could have been added for the professional.

No doubt this publication will be compared by many professionals with Wyman's Gardening Encyclopedia which sells for \$29.95. Parts of Wyman are noticeably out of date, but overall its value to the professional is not significantly less than Everett's Encyclopedia. If money is a consideration, Wyman's is still

excellent. If you want a Cadillac, Everett's book may be your favorite.

When a scientist devotes as much of his energy and life to a publication as Everett has, it is very difficult to criticize. But \$500 is a considerable amount of money and practical decisions have to be made. **WTT**

VEGETATION MGMT. from page 88

from the top downward. What causes this, and can you please suggest some control methods for this problem? (New York)

A: From the symptoms you describe, the birch has been attacked by the bronze birch borer. This is a very serious problem and occurs wherever birches are grown. Borer control is difficult because they are normally below the bark and in a protected site in the tree.

There are no reports indicating any association between the water blisters (bumps you mentioned) and bronze birch borer infestation. If you have seen any lumpy bark on the trunk, it would be an external indication of bronze birch borer activity. Generally, the birch trees which have survived borer attack develop these conspicuous swollen areas as a result of their healing process. The holes and tip dieback symptoms also suggest bronze birch borer injury. The exit holes made by the adult beetle are typically "D" shaped.

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GET TOUGH

on
Cut Worms
Chinch Bugs
Sod Webworms
Billbugs, Grubs and
Many Other Insects

The new, expanded Dursban 2E label includes the use of Dursban against wood-boring insects infesting shrubs and trees. Ohio State University is now recommending that Dursban be substituted for lindane for bronze birch borer control programs. Insecticides should be sprayed just prior to first adult emergence in June and twice more at two-week intervals.

Generally, this problem occurs on weakened plants. Therefore, keep the plant under good care with proper fertilizing and watering as needed.

Q: *It seems to me that many of the oaks around the Louisville area are dying. I have looked at several trees and did not see anything unusual. Is there something new attacking oaks in our area? (Kentucky)*

A: Within the last year, I have not seen anything in print which mentions a new pest or disease problem affecting oaks in Kentucky. However, our people have reported that more oaks than usual are dying in and near the Louisville area.

Upon examination, many of the affected oaks were found to be infected with obscure scale (*Melanaspis obscura*); so named because of its small size and gray color, which blends with the color of the bark.

Trees that look weak, have dead or dying limbs and show general decline symptoms could have this problem. Detection requires close examination, a trained eye and/or a 10X hand lens.

The scales tend to crowd together and stack on top of each other, forming a "crust" on the bark. Frequently, the bark is depressed or sunken where clusters of these insects have been sucking sap from the inner bark (phloem). Young scales are often found beneath several older, usually dead,

scales. Obscure scale is difficult to control, generally requiring more than one year's effort.

Obscure scale is primarily a southern pest, but is active also in the mid-Atlantic states. It has been found from Massachusetts to Florida, and west to Texas and California.

To manage obscure scale the following procedures are recommended:

1) Sanitation. Prune out dead, dying and heavily infested branches. 2) Sprays. Apply dormant oil and follow-up with insecticide sprays during the crawler stage; approximately mid-July for the red oak group and mid-August for the white oak group. 3) Fertilization. The trees should receive proper fertilization and water during dry periods to reduce stresses induced by scales and drought.

Q: *What can I use to control aphids that are feeding on the bark of my pines? I have tried malathion, but did not obtain good results. (Michigan)*

A: Your "aphids" are probably adelgids, which taxonomically different from the small, sucking insects we commonly call aphids. True aphids belong to the family Aphidae and can be controlled with organophosphate insecticides such as malathion or diazinon. The conifer bark aphids belong to the family Adelgidae and, as you mentioned, are not very susceptible to the organophosphates.

Carbaryl (Sevin), a carbamate, is effective against adelgids. Some studies have found a build-up of mites on trees repeatedly sprayed with carbaryl. Adding a miticide, such as Kelthane, should control the mites. **WTT**

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Circle No. 131 on Reader Inquiry Card

CLASSIFIEDS

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BOX NUMBER REPLIES: Mail Box number replies to: WEEDS TREES & TURF, Classified Ad Department, 120 W. 2nd St., Duluth, MN 55802. Please include box number in address.

BUSINESS OPPORTUNITIES

WANT TO BUY OR SELL a golf course? Exclusively golf course transactions and appraisals. Ask for our catalog. McKay Golf and Country Club Properties, 15553 N. East Street, Lansing, Michigan 48906. Phone (517) 484-7226. TF

FOR SALE—Successful RETAIL NURSERY and LANDSCAPE BUSINESS. Prime location on main Hwy in heart of town. Well equipped and fully stocked. Complete irrigation system from lake on premises. **STEADY CASH** flow and active Landscape Contracts. Asking \$225,000.00. Owner will help finance (813) 842-6851. TF

START YOUR OWN SOIL TESTING SERVICE. High Profits—Easy to get started. Takes the guess work out of Professional Turf Care Management. Unlike the amateur N-P-K/pH test like the homeowners use. This is a thorough 14-Point Professional Laboratory Analysis with recommendations by certified Turf and Soil Experts. It's what you need to set you apart from your competitors. Makes you the Pro—Keeps your customers loyal. A \$23 analysis for just \$12.00. A \$50.00 deposit gets you set-up with all the materials you need to market and service your customers and future prospects. We do the work —You come out ahead! Green Pro Cooperative Services, 380 S. Franklin Street, Hempstead, NY 11550. (516) 483-0100. 4/83

FOR SALE—PLANT STORE/GARDEN CENTER. Complete operating business including a very favorable long-term land lease in north Atlanta's finest shopping center. Profitable business has shown consistent sales increases to its present \$300m level. Excellent opportunity for owner-operator. Business, building, leasehold improvements, \$145,000. Pam Carruth, Realtor, 1590 Northside Drive, P.O. Box 20057, Atlanta, GA 30325, (404) 351-9574. 3/83

For Sale: Profitable retail garden center and landscape business. Located in coal and oil rich Eastern Montana. Includes 20' x 30' greenhouse, inventory and landscape tools and equipment. Write or call (406) 232-6190, Van's Landscape Garden Center, 215 South 6th, Miles City, MT 59301. 3/83

R.R. TIE DISTRIBUTORSHIP—TURN TIES INTO CASH... SEE MISCELLANEOUS. 5/83

PRIME GOLF COURSES FOR SALE: Professional golf course brokers & consultants. FAIRWAY BROKERS, 14315 W. 30th Ave., Golden, Colorado 80401 (303) 278-GOLF TF

FOR SALE

SOD-GRASS-SPRIGS Hy Bermuda 419 & 328 —\$1.10/sq. yd., Meyer Z-52 Zoysia—\$2.25/sq. yd., Centipede—\$1.50/sq. yd., Sprig prices quoted—ship anywhere. Bayou Pierre Turf Farms, Carpenter, MS 39050. (601) 885-8281 or 956-5034. TF

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NEW TREE FERTILIZATION GUN, tested on over a million square feet of trees and shrubs all over the U.S. Good to 500 psi, repairable, non-corrosive. Buy direct from manufacturer, \$75.00 + Shipping. Arbor-Nomics, Inc., 5634-A Buford Highway, Atlanta, Georgia 30071. (404) 447-6037. TF

DENVER, COLORADO. Commercial landscape maintenance business. Over a million in sales, unlimited growth potential and excellent reputation. Real estate also available. Write Box 26464, Denver, Colorado 80226. 3/83

Northern grown pure Meyer Zoysia (Z-52) your great water and \$ saving turf (row planting). Beauty Lawn Zoysia (Cincinnati) 1-513-424-2052. 10/83

SPRAYERS—FACTORY DIRECT, professional gardeners, turf applicators, proven dependability, unconditionally guaranteed. Black River Sprayers, Dept. 1-A, P.O. Box 11, Long Beach, N.C. 28461. 8/83

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NEW/WICK-IT™ "Junior" WEEDKILLER. Lightweight hand-held wick applicator. No spray drift, low herbicide usage. Johnsongrass and other weeds growing among desirable plants. \$16.95 plus \$2.00 for handling. Send for brochure. Plant Production, Rt. 7 Box 441E, Fort Worth, TX 76119. 4/83

USED EQUIPMENT

HI-RANGERS AERIAL BASKETS 65', 57', and 53'. Skyworkers aerial baskets 65', 50', 40'. Vermeer stump cutter 1560.6. Vermeer tree spade 66, TS 44. Asplundh bucket and brush chippers, Bean sprayer, 9 ton trailer. Parkway Tree Service, 12026 W. Cherry, Wauwatosa, Wisc. 53226. (414) 257-1555. TF

Hi-Ranger Bucket Trucks—90', 70', 65', 52' and 48', also Asplundh, McCabe, Pitman and Skyworker. Brush chippers, Vermeer stumpers, Prentice loaders, Vermeer TS 44 and 66, small cranes. Allied Utility Equipment, Inc., W204 N11509 Goldendale Road, Germantown, Wisconsin 53022, (414) 255-6161 Anytime. TF

Used Spray Units For Sale

1,250-gallon stainless steel tanks. Mechanical agitation. FMC 20 gallon/minute pump. Hanney electric reel. Ford F600 and Chevy C60's—'76's, '77's, '78's and '79's.

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SKYWORKER AERIAL BUCKETS—Sales of both new and used. Finest service anywhere in the country. Overhauls and changeovers are our specialty. Best prices on parts. We deal in all types of tree trimming equipment. Ask about fleet discounts. Call or write American Hydraulics, Inc., Route #4, Hartwell, GA 30643; (404) 376-3191.

FOR SALE—Used and rebuilt Big John Tree Transplanters, 50", 60", 78", 88", some with trucks. Used Vermeer PS44 planter with truck, also new Big John Tree Transplanters. Call (501) 362-8161, toll free, (800) 643-8039. 4/83

TREE SPRAYER—1000 gallon BEAN S.S. tank, 300'—3/4" hose on electric reel, BEAN gun. Excellent. \$10,500. Can deliver within 250 miles. 16" brush chipper (Woodchuck), V-8. Excellent. \$5000. Call (203) 688-4212. Windsor, CT. 4/83

For Sale: Finn Bantam 800 Hydroseeder—1980 Model—Like new. Tower, 200' hose, electric reel—on Finn Trailer. Contact Garry Struyk (402) 592-2233 or (712) 328-9227. 5/83

For Sale: Gould pump, 300 gpm @ 280 p.s.i. w/50 hp, 220 volt 3 phase motor, NEMA 5 starter. Less than 200 hrs. (315) 637-9023, 687-7100. 3/83

(9-Gang) set of 10 blade Jake Reel mowers, like new—two 36" wide flat tread plate fairway rolling wheels, (513) 424-5722. 3/83

For Sale—100' ARLO CRANE on 1973 Chevy C65 Truck, 30,000 miles, 18' steel body, welder & generator, tool boxes, heavy duty outriggers, mint cond., \$17,000.00 (617) 861-1300 or (617) 264-4126, 76 School St., Acton, Mass. 01720.

3/83

Going out of business sale, 1978 GMC Sierra 6000, with 1200 gallon Tufflex tank, has 50 gallon saddle tank. FMC 10 gpm. pump, Hanney electric hose reel, with 400 ft. 1/2 in. id. hose, also detachable side mount boxes for dry applications. Two FMC Royalette 1010 series sprayers, Scott RX rotary spreaders, spray guns, pumps, hand cans, much other misc., all equipment in excellent condition. Call Greg for info. (312) 293-1036.

3/83

Bean Rotomist Sprayer Model 100G, used twice, \$10,000 or best offer. (804) 973-4577.

TF

Used—Jacobsen F10, 7 gang, 5 blade blitzer mowers, semi pneumatic tires, \$6,800.00. Call (616) 887-7301.

3/83

FOR SALE—1975 John Bean 60 gpm hydraulic tree sprayer. 1000 gal. stainless steel tank—65 horsepower. Refiller, hose reel, hose and 1 gun included. \$10,000. Call 203-872-4513 evenings.

4/83

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3/83

NEW and USED EQUIPMENT Hi Ranger and Asplundh Forestry bucket trucks, Asplundh and Chipmores wood chippers, Stump Grinders, Log Splitters, Crane Trucks. Mirk Inc. (216) 669-3567 (216) 669-3562, 7629 Chippewa Road, Orrville, Ohio 44667

TF

BEAN 100 ROTO-MIST FOR SALE—Complete unit mounted on 1971 F350. Price \$9,800.00. 516-423-0090.

3/83

Vermeer TS-44 Tree Spade. Complete system ready for mounting on your truck. 4-Golf Course type tractors with turf tires \$2750.00 ea., some have hydraulic mowers. Ford 4500 diesel tractor loader backhoe \$5900.00. (312) 438-5101.

3/83

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4/83

TREE SPRAYER for sale. 500 gallon tank, 40 gallon per minute pump, excellent condition. For information call Horizon Estates Landscape Co., Franklin Lakes, New Jersey. (201) 891-9356. TF

HYDRO-MULCHERS AND STRAW BLOWERS. New and used. Southwest Hydro-Mulchers, 3220 S. Jupiter Rd., Garland, Tx. 75041. (214) 840-2440 (Tx.), (800) 527-2304 (except Tx.) TF

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MANAGEMENT—Landscape Construction firm based in Southwest location is seeking self-motivated individual for management position. The right individual should have good business management skills and knowledge in all facets of Landscape Construction. Excellent career opportunity with good pay and benefits. Only qualified individuals need reply. Send resumes to WTT Box 315.

3/83

GREENS SUPERINTENDENT: 18-hole US Army Golf Course Heidelberg, West Germany. Good salary, free housing and utilities. PX and Commissary privileges. Moving cost paid for. Contact Club Manager at 06202-3167 (Heidelberg, Germany) or send job application on Federal Form SF 171 to Heidelberg Golf Club, APO NY 09102.

3/83

Landscape Maintenance: Career potential for take-charge person. Minimum of two years experience a must. Salary negotiable. Send complete resume and references to Mid-Atlantic Landscape Development, Inc. Post Office Box 844, Lanham, Maryland 20706.

3/83

LANDSCAPE MAINTENANCE MANAGER—For well established Houston firm. Related degree and work experience required. 606 Delz, Houston, TX 77018. 713-691-5460.

3/83

Chemical Lawn Care Company needs General Manager with at least three years experience with a national or regional lawn care company. Experience must include sales, and customer and employee relations. Salary open. (214) 690-1051, Layson, Inc., P.O. Box 30121, Dallas, Texas 75230.

3/83

General Manager position open for chemical lawn and shrub division of established landscaping company in the sunbelt area. Tremendous opportunity for an aggressive individual having experience with a national or regional lawn care company. We are looking for a **BUSINESS-MAN**—the very BEST!! Knowledge of turf grass, ornamental plants, and marketing needed. The right person will enjoy excellent salary, benefits, and opportunity for equity participation with unlimited earnings potential. Send complete resume including education, experience, and salary history. All replies will be kept confidential. Write WTT Box 313.

3/83

Landscape maintenance supervisor. Large established commercial maintenance contractor has immediate opening for an area supervisor to manage and develop commercial, industrial and public work maintenance programs, and must have experience including pest control and estimating. Excellent growth potential. Salary commensurate with experience. Send resume to Mickey Strauss or Gary Peterson, American Landscape Maintenance, 7949 Deering Avenue, Canoga Park, CA 91304. 213-999-2041.

3/83

SOD FARM MANAGER—500 acre Chicago-area operation seeks qualified manager. Involves production, irrigation, and harvesting. Excellent salary and benefits. Send resume to WTT Box 314.

4/83

Landscape Supervisor, Salesman, Maintenance Supervisor, Irrigation Manager. Experience essential for a position with fast growing operation in Massachusetts. Must be aggressive and willing to work. Send resume to: Duxbury Gardeners, Inc., 650 Tremont St., Duxbury, MA 02332.

3/83

MISCELLANEOUS

BALL BARRIER NETTING: Made of Olefin fibers. 6 1/2 feet and 25 feet high. Strong and tough. Will not rust. Easy to handle. For Driving Ranges and Golf Courses. Keep golf balls from straying off-course. J.A. Cissel Co., Inc., Dept. JK, P.O. Box 339, Farmingdale, N.J. 07727. (800) 631-2234.

4/83

DIESEL HI-RANGER TOWERS—48-100 Feet working heights. Daily, weekly, monthly rentals with or without operator. MATLOCK LEASING, Pottstown PA (215) 326-7711 or (800) 345-7711.

TF

KELWAY® SST, new professional **SALINITY TESTER** using microchip technology, retails under \$90.00. Eliminates soluble salts problems by telling when to leach or fertilize. Available from distributors. Brochure from **KEL INSTRUMENTS CO., INC.**, P.O. BOX 1869, Clifton, N.J. 07015, (201) 471-3954.

5/83

KELWAY® SOIL ACIDITY TESTER, used by PROFESSIONALS nationwide. Direct reading, portable, serviceable. **Model HB-2** reads moisture too. Available from distributors. Brochure from **KEL INSTRUMENTS CO., INC.**, P.O. Box 1869, Clifton, N.J. 07015, (201) 471-3954.

10/83

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5/83

POSITION WANTED

GROUND MAINTENANCE/LANDSCAPE SUPERVISOR—Seeks challenging position. Schooling, field application in landscaping, design and maintenance. Resume upon request. Jack Pingree, 303 Old Oak Rd., Newark, Delaware, 19711. (302) 731-4082.

8/83

WANTED

Wanted—Princeton Tow-Boy Sod Harvester & Princeton Piggy Back Forklift, Call (815) 633-7900.

3/83

WANTED—Used Toro Parkmasters—any year, any condition, any quantity, B&M Leasing, P.O. Box 172, Williamstown, New York 13493, (315) 675-8293.

5/83

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LANDSCAPE AND TURFGRASS MANAGEMENT: Obtain the expertise to start and/or manage a landscaping or lawn care business. For information on our two year program contact the Institute of Applied Agriculture, University of Maryland, College Park, Maryland 20742 (301) 454-3938

4/83

START YOUR LANDSCAPING CAREER NOW! Write: School of Landscape Design and Sales, Lake City Community College, Rt. 7, Box 42, Lake City, Florida 32055. Fully accredited and V.A. approved.

8/83

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