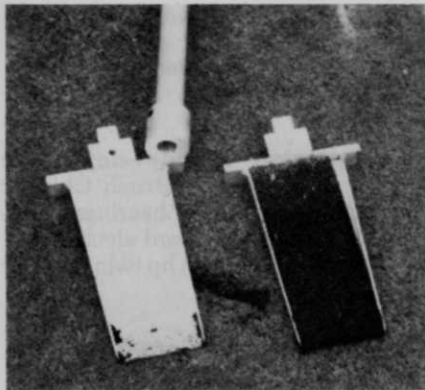


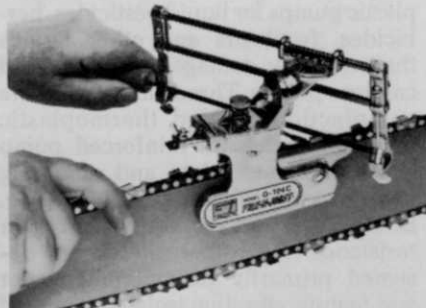
Turfgrass Products' Soil Profile Sampler cuts an undisturbed soil profile of turfgrass and other areas, from which observations of thatch, soil compaction, roots and other soil problems can be made. The profile measures 6-in. by



3-in. Turfgrass Products also provides information on techniques for preserving soil samples for use as records or visual aids.

Circle No. 133 on Reader Inquiry Card

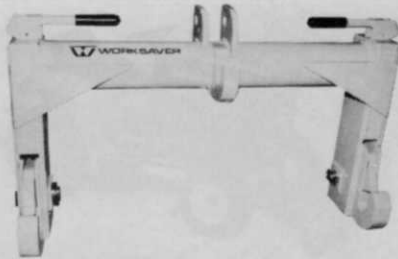
Granberg's File-N-Joint chain sharpener has a dial setting file guide for heavy duty sharpening on the bar. Clamps and chain holders keep the exact chain angle and depth gauge height.



The File-N-Joint sharpens all 1/4- to 1/2-in. pitch chain and takes 6- and 8-in. files in sizes from 1/8- through 1/4-in.

Circle No. 134 on Reader Inquiry Card

Worksafer Quick Hitches are constructed of heavy steel bar and tubing. The hitches feature non-rotating draw



pins, adapter bushings and a tapered top hitch bracket. They fit most category II and III three point hitch tractors and come completely assembled and ready for tractor mounting. The model HK-502 fits tractors up to 100-hp and the model HK-503 fits tractors up to 220-hp.

Circle No. 135 on Reader Inquiry Card

Chipmunk has a new compact clipper designed for use by in the field by arborists, public works departments, and utilities. Powered by a four cylinder gasoline engine, the 2800-lb. chipper



chips with four 12-in. steel blades driven by a flywheel. Processed chips travel through the exhaust chute aided by a blower and can be discharged in any direction using an adjustable chute.

Circle No. 136 on Reader Inquiry Card

Continued on page 62



Split 'em up in just seconds...then tow it away at 55 mph!

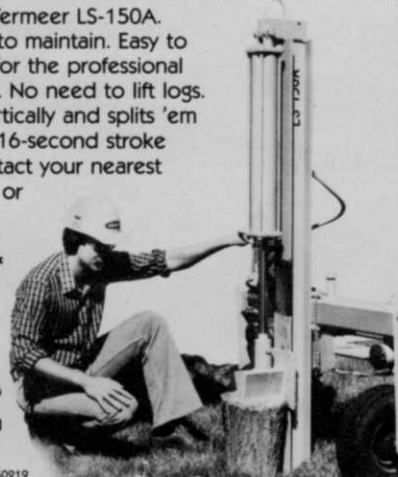
Introducing the new Vermeer LS-150A. Easy to operate. Easy to maintain. Easy to transport. Affordable for the professional and homeowner alike. No need to lift logs. Splitting tower tilts vertically and splits 'em up to 24" long. Rapid 16-second stroke cycle. Interested? Contact your nearest Vermeer dealer today or call us toll-free at 1-800-247-2347 for complete information.*

*In Iowa, call collect (515) 628-3333



Vermeer
Vermeer Manufacturing Company
8808 New Sharon Road, Pella, Iowa 50219

Circle No. 126 on Reader Inquiry Card



Lawn Genie pick-up mower



Saves work all year 'round

- Spring - Thatches, renovates and picks up in one pass
- Summer - Mows and loads clippings in quick-dump hopper
- Fall - cleans up leaves, twigs and trash

Change mowing or thatching blades in seconds with M-C's patented hanger design.

Four cutting widths from 36" to 72", engine driven or P.T.O.

Call or Write Today
Mathews Company
P. O. Box 70
Crystal Lake, IL 60014
815/459-2210



Iron Horse Quality Equipment

Circle No. 114 on Reader Inquiry Card

Progressive Electronics now has the model 521 wire, pipe and solenoid valve locator. Useful for maintenance of zone irrigation, gas, water power and telephone the 521 consists of a transmitter, a receiver, a headset and a ground probe. The transmitter features an on/off plunger, meter for battery



condition and a selector switch to choose output voltages. The receiver is powered by a 9 volt battery and has a battery test button, meter to indicate battery condition, headphone jack and battery saver circuit which automatically shuts the receiver off when its inside the case.

Circle No. 137 on Reader Inquiry Card

Homelite is now offering five thermoplastic pumps for liquid pesticides, herbicides, fertilizers and other liquids that normally damage aluminum and cast iron pumps. Three pumps combine an injection molded thermoplastic polyester and glass reinforced pump body, impeller, volute and mounting bracket with stainless steel hardware, EDPM seals and gaskets for corrosion resistance. Two other models are designed primarily for pumping water and feature vibration isolated mounted skids and Buna-N seals and gaskets.

Circle No. 138 on Reader Inquiry Card

Engineering Products' Power King tractor is a compact 12-hp model that comes with a 42-in. mower. The 1212 model has an all-gear drive system with a four speed transmission that pro-



vides eight forward speeds and two reverse. According to the manufacturer, the tractor has a short turning radius and easy maneuverability in close quarters. The tractor is powered by a 12-hp Kohler cast iron engine and features a 42-in. mower that hooks on without tools.

Circle No. 139 on Reader Inquiry Card

Vandermolen has developed the heavy duty Diadem Brush Chipper featuring heavy duty bearings, triple belt drive and a standard electric start. It is powered by an 18 hp twin cylinder



engine. Similar to larger chippers, the rotor design can handle limbs of up to 3

It drives your dirt to drink

...and drain too much or too little water, and you've got problems!... unless you use Aqua-Gro the rootzone water management tool.

Aqua-Gro is specially formulated to eliminate problems from excessive moisture. Its unique blend ensures faster, more uniform water penetration and drainage. Aqua-Gro will provide the desired residual benefits, irrigation after irrigation, because it does not leach. Insufficient moisture can cause localized dry spots and browned out turf.



inches in diameter. The chipper is also easily towed and can be moved by one man when detached from the towing vehicle.

Circle No. 140 on Reader Inquiry Card

Agrafim Irrigation has introduced a take apart drip irrigation emitter, the TA-4 that comes in a one gallon per hour capacity. The top can be easily removed so the emitter can be cleaned in the field. It is available in two configurations: the TA-4R is suited for use as



a riser line emitter, and the TA-4B is a barbed base emitter which attaches on-line to surface placed tubing.

Circle No. 141 on Reader Inquiry Card

Fairfield American has announced that its Pyrenone crop spray has been labelled by the EPA for use against gypsy moth larvae. The pyrethrum-based spray, mixed with residuals, has



an "exciting" action that flushes the insects out of hiding places for far more effective residual performance. The spray also is labelled for control of canker worms and tent caterpillars on shade and forest trees.

Circle No. 142 on Reader Inquiry Card

Vemco has added two new self-propelled walk-behind mowers to its line of flail mowers. All self propelled units feature turning brakes, 360-degree caster wheels and five forward speeds. In rough areas, the blades will fold back on impact with solid objects, preventing blade breakage and the



danger of throwing objects. An optional riding sulky and various engine styles are available.

Circle No. 143 on Reader Inquiry Card




Aqua-Gro provides fast relief. Aqua-Gro moves water into the rootzone reducing run-off and evaporation. More uniform water movement and distribution through the soil profile reduces summer stress and watering costs 30%-50%.

In addition, Aqua-Gro enhances the efficacy of pesticides and fertilizers, while eliminating the problems associated with thatch, compaction, and poor soil mixing.

So use Aqua-Gro. Available in liquid concentrate or spreadable granular from your local distributor. It's an important ingredient to insure the constant healthy growth of turf on grounds, playing fields, and golf courses.

For free illustrated brochure and further information call TOLL FREE 800-257-7797, (in N.J. 609-665-1130, or write:)

 AQUATROLS CORPORATION OF AMERICA, INC.
1432 Union Avenue, Pennsauken, N.J. 08110

AQUA-GRO[®]

It drives your dirt to drink...and drain.

Circle No. 101 on Reader Inquiry Card

THOSE OLD VALVES ARE VALUABLE.

Even if they've quit working, or leak badly, they're worth hundreds of dollars to you right in the ground.

All it takes is an NIS Valve Repair Kit and a socket wrench to make 'em work like new again.

Not only do you save the cost of a new valve, you avoid the nightmare of main line breakage, or debris being washed down the line to choke up other valves and sprinkler heads.

NIS Valve Repair Kits let you install a new plunger (piston), main gasket or O-ring, and new bonnet bolts. Other parts like diaphragms, flow-control



assemblies, bleed screw assemblies, or bonnets are available. Hydraulic-to-electric conversion kits, too.

Our materials are the finest. Stainless steel, yellow brass, Buna-N rubber. **Everything we sell is guaranteed for a full year.**

Whether that old soldier in the ground is a Moody, Gee, Buckner, or Febco, don't remove it, don't scrap it. NIS it!

Call or write for full details today. National Irrigation Specialists, 1025 E. Katella, Unit F, Anaheim, California 92805, Telephone (714) 634-3336



NATIONAL IRRIGATION SPECIALISTS

KEEP 'EM FLOWING

Circle No. 118 on Reader Inquiry Card

Scientific Guide To Pest Control Operations

by Dr. L.C. Truman
Dr. G.W. Bennett and
Dr. W.L. Butts



Domestic: \$29.50* (hardcover)
Foreign: \$34.50* (hardcover)

The SCIENTIFIC GUIDE TO PEST CONTROL OPERATIONS is designed to provide a sound basis for studying the scientific aspects of pest control and promote technical competence. It places emphasis on urban and industrial pest problems. This volume also covers the laws and regulations concerning the pest control industry.

The SCIENTIFIC GUIDE TO PEST CONTROL OPERATIONS is written for owners, supervisors, servicemen, salesmen, students, persons preparing for state certification under the EPA/state programs for commercial pesticide applicators, and people interested in structural pest control.

The SCIENTIFIC GUIDE TO PEST CONTROL OPERATIONS - a *must* for anyone involved in the field of pest control!

Return this coupon to: Book Sales
Harcourt Brace Jovanovich Publications
One East First Street, Duluth, MN 55802

Domestic: \$29.50* (hardcover)
Foreign: \$34.50* (hardcover)

YES! Please send me _____ copy(ies) of the SCIENTIFIC GUIDE TO PEST CONTROL OPERATIONS.

A check or money order for _____ is enclosed.
Please charge to my Visa, Master Card, or American Express (circle one)

WTT 82

Account Number _____ Expiration Date _____

Quantity rates available upon request.

*Please add \$3.00 per order plus \$1.00 per additional copy for postage and handling.

Name _____

Address _____

City _____ State _____ Zip _____

Signature _____ Date _____

Phone _____

Please allow 6-3 weeks for delivery

moisture levels and temperatures.

"Microecosystems simulate field conditions and provide a controlled atmosphere for comparing the effects of various soil types on the lifetime of a pesticide," said David Wehner, assistant professor of horticulture. The technology will also allow different types of pesticide formulations, such as granular, sprays and slow release compounds, to be evaluated in the same soil type.

With the radioactive tags, the researchers will be able to follow a pesticide as it is transformed in the soil. "This type of study which requires radioactive chemicals couldn't be conducted under field conditions," according to Wehner.

The initial studies will be concentrating on the changes in pesticide persistence in turfgrass. If the system proves effective, the researchers hope it can eventually be used to screen new pesticides.

CHEMICAL

Van Diepen joins PBI Gordon Corp.

Dr. Jan van Diepen has been appointed technical director of research and development by the PBI/Gordon Corp. According to J.S. Skaptason, vice president of research and development, van Diepen will concentrate on developing new products for the Gordon Professional Turf Division, as well as the Acme Lawn and Garden Products and Acme Agricultural Products divisions of PBI/Gordon.

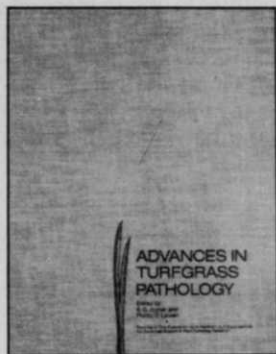


Jan van Diepen joins PBI Gordon as technical director.

Van Diepen has international ex-
Continued on page 66

Advances in Turfgrass Pathology

published by HARCOURT BRACE JOVANOVIICH PUBLICATIONS in
cooperation with Dr. B. G. Joyner, Dr. P. O. Larsen and
Chemlawn Corporation



This extensive volume contains chapters on:

- turfgrass diseases
- cool v.s. warm season pythium blight and other related pythium problems
- snow molds of turfgrasses
- fairy rings
- leaf spot of Kentucky Bluegrass in Minnesota
- initial and field fungicide screening
- turfgrass disease resistance
- PLUS MUCH MORE!

\$27.95* (hardcover)
\$18.95* (paperback)

COPIES
LIMITED —
DON'T DELAY!

ADVANCES IN TURFGRASS PATHOLOGY is a compilation of more than 23 reports and discussions by the nation's leading turfgrass pathologists. Explore the diseases that attack turfgrass. Find out how to conquer the battle of turfgrass diseases.

KEEP CURRENT WITH NEW IDEAS ON HOW TO HANDLE TURFGRASS PROBLEMS WITH ADVANCES IN TURFGRASS PATHOLOGY.

Return this coupon to: Book Sales

Harcourt Brace Jovanovich Publications
One East First Street, Duluth, MN 55802

YES! Please send me _____ copy(ies) of ADVANCES IN TURFGRASS PATHOLOGY.

Name _____
Address _____
City _____ State _____ Zip _____
Phone _____

\$27.95* hardcover \$18.95* paperback
Quantity rates available on request.

A check or money order for _____ is enclosed.

*Please add \$3.00 per order plus \$1.00 per additional copy for postage and handling.

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

Account Number _____

Expiration Date _____

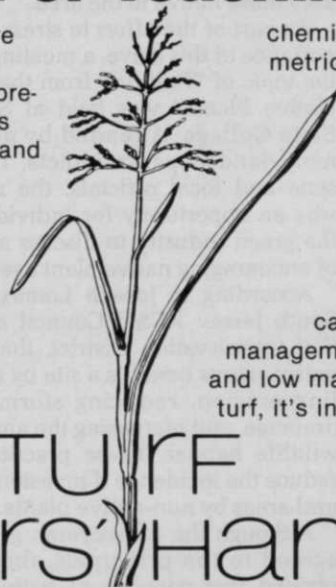
Please allow 6-8 weeks for delivery.

WTT 82

Finally, An Aid For Teaching Turfgrass

Superintendents, Contractors, Lawn Care Managers, New, On-the-Job Reference. The Turf Managers' Handbook is a comprehensive, organized approach to turfgrass science and care. It has been designed and written by leading turf specialists from Purdue, Dr. William Daniel and Dr. Ray Freeborg, for on-the-job reference and as a text for students.

The book contains 150 illustrations and 96 color photographs. Data includes 240 tables and forms. Included are specifications for rootzones, employment, calculations for



chemical applications, and extensive metric-imperial conversion. Business and technical aspects of turfgrass management are covered in this 424-page book. Planning, purchasing, hiring, construction, and plant selection are put together for easy on-the-job reference. Markets covered include lawn care, sod production, golf course management, cemeteries, athletic fields, and low maintenance areas. If it concerns turf, it's in the Turf Managers' Handbook.

TURF managers' HANDBOOK

Ordering Information

Please send _____ copies of the hardback (\$23.95* ea.)
_____ copies of the paperback (\$18.95* ea.)

*Please add \$3.00 per order plus \$1.00 per additional copy for postage and handling.

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

Account Number _____ Expiration Date _____

A check or money order for _____ is enclosed.

I understand that delivery may take six to eight weeks. Quantity and bookstore rates available upon request.

Signature _____

Name (Print) _____

Address _____

City _____ State _____ Zip _____

Send to:
Book Sales
Harcourt Brace Jovanovich Publications
One East First Street
Duluth, MN 55802



WTT 82

perience marketing chemicals for Stauffer to the Middle East, Far East and Australia. He covered the same territory while headquartered in Milan, Italy with the Agricultural Division of Montedison Co. Before joining PBI/Gordon, van Diepen was development coordinator of Chipman Inc., supervising the development of ICI proprietary products in Canada.

EQUIPMENT

Manitou B.F. buys K-D Manufacturing

The French company, Manitou B.F., has bought a controlling interest in K-D Manufacturing by acquiring 51% of the common stock of K-D. Both companies are manufacturers of rough terrain forklifts.

Founded in 1946 by M.M. Key of Waco, TX, K-D Manufacturing will remain in that town, and the number of people employed in the plant is expected to grow from 150 to 225 over the next two years.

M.M. Key Jr., remains the president of the company, which has been renamed K-D Manitou. Roland Lepers



and Marcel Braud Jr., of Manitou B.F., have been appointed vice presidents of marketing and finance, respectively.

LANDSCAPE

Native plants stressed for landscape use

Landscapers and nurserymen in the southern region of New Jersey are being required by state and municipal governments to increase their use of native plant species in their work. Municipalities are beginning to encourage the developers to both restore and replace cleared vegetation with environmentally appropriate plants, preferably those native to the area.

As part of the effort to stress the importance of this drive, a meeting under the topic of "Profiting from the Use of Native Plants" was held at Stockton State College. Attended by nurserymen, landscape architects, federal, state and local officials, the meeting was an opportunity for individuals in the green industry to discuss methods of encouraging native plant use.

According to Joseph Lomax of the South Jersey RC&D Council and the Soil Conservation District, the use of native plants benefits a site by controlling erosion, reducing storm water drainage, and increasing the amount of wildlife habitat. These practices also reduce the incidence of invasion of natural areas by non-native plants.

Although the nurserymen generally agreed to the principals, they complained that supplies of native plant species are usually short. Designers were urged to continue to communicate their needs to suppliers so that these shortages would eventually be reduced.

The designers were also instructed by Karl Braun of the N.J. Department of Environmental Protection to seek the consultation of local agencies in assessing the needs of the region, before wasting time and money on inappropriate

plantings. Braun warned that plantings must be treated as communities not simply as individuals.

Speakers dealt with the need of many municipalities to obtain more education before creating policies that will cause designers and managers serious problems. These conflicts are being solved in many towns by one to one consultations and between contractors and township staff.

TURF

Natural grass installed for Pan Am Games

The 1982 Pan American Games in Caracas, Venezuela will be played on five natural grass athletic fields designed by Sportsturf International of Salt Lake City, Utah.

Because the Games are scheduled to be played during a month in which the average rainfall is 5-1/2 inches, a field with maximum drainage was selected. The Sportsturf "TD" Field was chosen for its excellent moisture control. The grass on this field is planted directly in sand which provides a good growing medium and allows the water to be stripped from the playing surface.

During the dry season, the "TD" fields can be watered from beneath the playing surface. This conserves water as well as encouraging the roots to reach deeply into the sand, producing a tough surface.

PESTICIDES

Prices may rise five percent

Pesticide prices are expected to rise no more than 5% next year, according to a report from the Department of Agriculture. This prediction can be compared to the 8-10% rise or last year.

During the 60's and 70's, the use of pesticides increased rapidly, causing the prices to escalate with the demand. Now, as 90% of the major crops are being treated, the prices of the chemicals are leveling out.

Current agricultural trends are also affecting the rate of the price increase. The Integrated Pest Management technique, which requires fewer applications, of pesticides, is becoming popular. On the other hand, there is a similar trend toward minimum-till farming, which requires more herbicide and insecticide. The two are expected to balance out and keep the annual rate of price increase at less than 3%.

Second National Urban Forestry Conference
Urban Forestry for Livable Cities: MAKING IT HAPPEN.

October 10-14, 1982.



Cincinnati Convention Center and Stouffer's Cincinnati Towers Hotel.

For program, exhibit, and registration information, write the American Forestry Association, 1319 18th Street, N.W., Washington, D.C. 20036.

Co-sponsored by The American Forestry Association, USDA-Forest Service, USDA-Extension Service, and the Ohio Forestry Association.

EVENTS

The current issue of **WEEDS TREES & TURF** carries meeting dates beginning with the following month. To insure that your event is included, please forward it, 90 days in advance, to: **WEEDS TREES & TURF Events**, 757 Third Ave., New York, NY 10017.

National Lawn and Garden Distributors Annual Convention, Fairmont Tower, San Francisco, CA, **Sept. 12-15**. Contact Nancy Irving 1900 Arch St. Philadelphia, PA, 215/564-3484.

Virginia Turfgrass Research Field Days, Virginia Tech, Blacksburg, VA, **Sept. 14-16**. Contact J.R. Hall, Agronomy Dept. Blacksburg, VA 24061, 703/961-5797.

Understanding Weeds (A Practical Course on the Biology of Weeds) Purdue University, West Lafayette, IN, **Sept. 12-17**. Contact G.F. Warren, 1130 Cherry Lane, West Lafayette, IN 47906, 317/463-1130.

Northwest Turfgrass Conference, Washington Conference Center, Yakima, WA, **Sept. 20-23**. Contact Roy Goss, Washington State University, Puyallup, WA 98371, 206/593-8513.

Midwest Turf Field Days, Purdue University, West Lafayette, IN, **Sept. 27-28**. Contact W.H. Daniel, Dept. of Agronomy, Purdue University, West Lafayette, IN 47907, 317/494-4785.

International Pesticide Applicators Association Annual Convention, Holiday Inn, Seattle, WA, **Sept. 29-Oct. 1**. Contact Pete Tovoli 4202-11th NW, Puyallup, WA 98371, 206/848-3407.

CAN Horticultural Tour of Australia, **Oct. 25-Nov. 16**. Contact Elaine Thompson, California Association of Nurserymen, 1419 21st St. Sacramento, CA 916/448-2881.

Herbicide Action Course, Purdue University, West Lafayette, IN, **Oct. 31-Nov. 5 and Nov. 7-12**. Contact G.F. Warren 1130 Cherry Lane, West Lafayette, IN. 47906, 317/463-1130.

Atlantic Seedsmen Association Annual Convention, Fort Magruder Inn, Williamsburg, VA, **Nov. 3-5**. Contact Margaret Herbst, 230 Park Avenue, New York, NY 10017, 212/685-5917.

California Landscape Contractors Association Annual Convention, Hawaii, **Nov. 10-14**. Contact CLCA, 916/448-CLCA

NY State Turfgrass Association Conference and Trade Show, Rochester, NY, **Nov. 9-11**. Contact Ann Reilly, 210 Cartwright Boulevard, Massapequa Park, NY 11762, 516/541-6902.

21st Nebraska Turfgrass Conference and Trade Show, Holiday Inn, Omaha, NB **Jan. 11-13**. Robert Shearman, 377 Plant Science Complex, University of Nebraska, Lincoln, NB 68583, 402/472-2550.

Golf Course Superintendents Association of America 54th International Turfgrass Show, Georgia World Congress Center, Atlanta, GA, **Feb. 22-24**. Contact Kay Nelson, 1617 St. Andrews Drive, Lawrence, KS 66044, 913/841-2240.

American Society of Landscape Architects Annual Meeting, Hilton Hawaiian Village, Honolulu, HI, **Nov. 20-23**. Contact Ed Able, ASLA, 1733 Connecticut Avenue, NW, Washington, DC 20009, 202/466-7730.

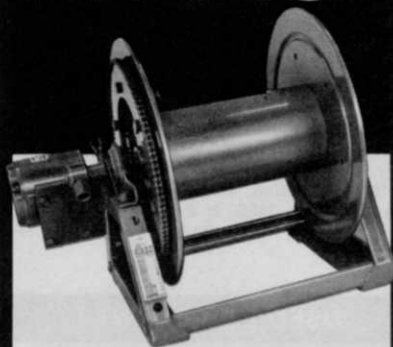
8th Annual Professional Landscape Management School, Indiana State University, Evansville, **Nov. 16-17**. Contact Allen Boger, Room 202, City-County Building, Evansville, IN 47708, 812/426-5287.

Professional Lawn Care Association of America's 3rd Annual Convention and Trade Show, Indiana Convention Exposition Center, **Nov. 16-18**. Contact Jane Stecker, 435 North Michigan Ave., Suite 1717, Chicago, IL 60611 312/644-0828.

Professional Grounds Management Society National Conference, Vacation Village Hotel, San Diego, CA, **Nov. 16-18**. Contact Michael Silberhorn, 7 Church Lane, Pikesville, MD 21208 301/653-2742.

21st Annual North Carolina Turfgrass Conference, Pinehurst Hotel, Southern Pines, NC, **Jan. 4-6**. Contact L.T. Lucas, 3409 Gardner Hall, N.C. State University, Raleigh, NC 27650, 919/737-2751.

HOSE WITHOUT A REEL IS A DRAG



Eliminate hose mess with Hannay Reels!

- Store hose neatly, ready to go when you are.
- Pull out smooth & easy. Wind up straight & fast.
- Less wear and tear on you and the hose.
- Fertilizers. Pesticides. Herbicides. Whatever you spray, rely on Hannay!

Request a Free Reel Guide Today!



CLIFFORD B. HANNAY & SON, INC., WESTERLO, NEW YORK 12193

Circle No. 106 on Reader Inquiry Card

CLASSIFIEDS

RATES: 75 cents per word (minimum charge, \$20). Bold face words or words in all capital letters charged at \$1.00 per word. Boxed or display ads charged at \$70 per column inch (one inch minimum). Agency commissions will be given only when camera-ready art is provided by agency. For ads using blind box number, add \$5 to total cost of ad. Send ad copy with payment to Dawn Anderson, WEEDS, TREES & TURF, 1 East First Street, Duluth, MN 55802.

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) 484-7726. TF

USED EQUIPMENT

For Sale—Sod harvesters, 1977 Princeton tow boy sod harvester, model 4020 with trailer and 1979 Princeton self-propelled, model 4020 diesel. Contact Circle Acceptance Leasing Corporation, Columbus, OH. (614) 890-5040. Ask for Mike or Joel. 9/82

100' SKYHOOK CRANE mounted on 1980 Ford F-700, \$25,000. 100' Skyhook Crane mounted on 1969 Ford F-704, \$12,500. Heavy duty log loader mounted on 1969 Ford, \$9800. Royer Model 120 Loom Processor, \$4500. HD-5 Crawler Tractor with cargo winch, \$3200. HD-5 Crawler Tractor with earth drill, \$2000. Ditch Witch Trencher, \$1650. Ingersoll Rand Air Compressor, \$1000. Irrigation Pump (Hale model 25FA), \$675. 1000' plus Aluminum Irrigation Pipe, \$1.25 per foot. HD-5 Crawler Tractor with cargo winch, \$3750. Contact Arthur Batson, Sr. John Lucas Tree Expert Co., 636 Riverside St., Portland, OR (207) 797-7294. 8/82

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

Hydraulic powered raking machine, 7' wide swath, picks up all debris down to 1" diameter; then hauls away and dumps. Leaves seeded ready, 3 point hitch, with or without JD 70 H.P. Diesel Tractor. Martin's Landscape, (717) 733-6077. 8/82

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.

Call (502) 241-7341. TF

Seeding Spread, Finn 1500 Gal. Hydroseeder. Finn Eagle (diesel) mulch spreader, Brill Lion 12' 3pt seeder. Anderson rotary rock picker. 4000 gal. tandem tanker. Several land tractors. (312) 438-5101. 9/82

USED GOLF CARS FOR SALE—All makes and models, 3 & 4 wheel, electric or gas. If we don't have your choice in stock we can get it. Transportation available. Mid-Atlantic Equipment Corp., Collegeville, PA. Call Now! (215) 489-1400. TF

HI-RANGER BUCKET TRUCKS, 54' and 51', Flatbed and chip box mits—Merrill brush chipper. Allied Enterprises, Inc., W. 204 N. 11509 Goldendale Rd., Germantown, WI 53022, (414) 255-6161 anytime. TF

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

FOR SALE: Several used Spyder Forklifts starting at \$10,500 also trailers. 1000 gal. Super Seeder Hydro-mulcher \$8,500. Tex 1 (800) 772-5978 or (817) 261-7346. 9/82

For Sale—Lely Turfshaper 80" wide with seeder box, Brillion Seeder 60" wide, Gorman-Rupp irrigation pump with Tico pipe for 1 acre coverage. 1973 John Deere 301 diesel with loader and 2 buckets. All equipment in excellent condition. Phone (814) 476-1097 or (814) 838-9857. 8/82

Completely overhauled and dielectrically insulated 45' Sky-Workers, One Alpine Sky-Worker 57' For Sale and Rent. 90 day guarantee on sales. Call Aerial Lift, Inc., Milford, Conn. (203) 878-0694. TF

FOR SALE: Toro 7 gang mowers, 16 foot cutting width, \$3000.00. (216) 338-3008 days, (216) 564-7882 evenings. 8/82

POSITION WANTED

COUNTRY CLUB SUPERINTENDENT/GOLF COURSE CONSTRUCTION SUPERINTENDENT/CLUB MANAGER.

Talented manager available to fill the above position(s). Varied and extensive experience includes: Irrigation contractor—10 yrs., GC Superintendent—8 yrs., GC Construction Superintendent—5 yrs., Club Manager/Golf Pro—3 yrs. Jack Ostrander, P.O. Box 2453, Stuart, FL 33495. (305) 283-4586. Will relocate. 8/82

WANTED

WANTED—Large Lindig & Royer Soil Shredders. Lewis Equipment Co., 320 Third Street S.W., Winter Haven, Florida 33880 (813) 294-5893. 12/82

MISCELLANEOUS

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. 3/83

DIESEL HI-RANGER TOWERS—48-100 Feet working heights. Daily, weekly, monthly rentals with or without operator. MATLOCK LEASING, Pottstown, PA (215) 326-7711. 12/82

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

LEARN TO BE A GOLF COURSE SUPERINTENDENT OR LANDSCAPE CONTRACTOR 2 year program, A. A. S. Degree, Fully Accredited, V.A. approved. Financial assistance available. Many job openings for graduates. Write: Dept. of Golf Course Operations/Landscape Technology, Western Texas College, Snyder, Texas 79549. 9/82

FOR SALE

CHRISTMAS TREES WHOLESALE—6 ft.-8 ft. white & scotch pine, Norway-white-black and blue spruce. Logue Evergreen Farms, Cooksburg, PA 16217 (814) 744-8193. 10/82

2 TREE SPRAYERS FOR SALE: 1,000 gallon tanks, 60 gallon a minute pumps, excellent condition. For information call Schmiede Tree Expert Co., Fanwood, NJ 07023. (201) 322-9109. TF

FOR SALE—9-Hole, Par 3 golf course in Eastern Mass. (Southboro) 1300 yards, well landscaped, excellent greens, 12 yrs. old, mowed tee to green, flat, 1100 rounds 1981. Must retire. Heavily populated area. E.L. Kallander, 18 Meadow Lane, Southboro, MA 01772. (617) 485-3834. 6/82

SKYWORKER AERIAL BUCKETS: Sales, Parts and Service. New and used units available to 65 feet. New and Used brush chippers, Hydro Ax's, used stumpers, sprayers and digger derricks also available. Call or write P.C. GOULD SALES COMPANY, Plains Road, Essex, Conn. 06426 (203) 767-1636 9/82

Northern grown pure Meyer Zoysia (Z-52) your future great water and \$ saving turf—Guaranteed Bermuda & bug free—"Beauty Lawn Sod" (Cincinnati) (513) 424-5722. 8/82

GOLF COURSE/TURF TRACTORS: The City of Janesville, Wisconsin has two, wheeled turf tractors for sale. Both tractors are 1971 John Deere 300's, with 18 H.P. 3 cylinder gas engines, 18.4x16.1 Turf tires, and 3 point hitches. The tractors have been used exclusively in Municipal Golf Courses, have approximately 3,500 hours on them and are in excellent condition. \$5,500 each. Contact City of Janesville, Division of Public Works, 18 N. Jackson St., (608) 754-2811. 8/82

LAWN SEED. Wholesale. Full line of top quality grasses. Improved bluegrass varieties, fine fescues and fine bladed ryegrasses. We specialize in custom mixing. Olinger Seed Company, 2705 Wingate Avenue, Akron, Ohio 44314. Call collect (216) 753-2259. 4/83

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

LIVE OAKS—Trees 1 gal. Quercus Virginiana. Available Sept.-Feb. \$1.75 ea.; Quantity Discounts Available up to 35%. Liners Available. Las Colinas Greenhouses, P.O. Box 61208, DFW Station, Dallas, Texas 75261. (214) 243-8209 or 243-8215. 1/83

MOODY PARTS GALORE Keep those old valves young with new replacement plungers, diaphragms, stems, seat discs, washers, o' rings, etc. **CLOCK** parts too! **BUCKNER, FEBCO,** and **GEE** parts available. Call or write for catalog. National Irrigation Specialists, 1025 East Katella, #F, Anaheim, Calif. 92805. (714) 634-3336. 8/82

SPYDER Forklift/Trailer, 200 hours, exc. cond., Zionsville, IN. \$12,400. George, (317) 873-5231 or 873-5937. TF

HELP WANTED

Established Middle Georgia Company needs experienced residential tree crew foreman—climber—must have at least 5 years experience as top climber & ability to manage crew—year round work—good benefits—send complete resume to MULLIS TREE SERVICE, INC., P.O. Box 6292, Macon, Georgia 31208. (912) 742-0620. 8/82



Then let us know.

This publication will be mailed only to your current business address. Please indicate changes and return this coupon to us along with the mailing label attached to the magazine cover to avoid duplication. Thank you.

Send to:
WEEDS TREES & TURF
HARCOURT BRACE JOVANOVIICH PUBLICATIONS
Subscription Dept.
1 East First Street, Duluth, MN 55802

Signature _____ PLEASE PRINT
 Name _____
 Business Name _____
 Business Address _____
 City _____ State _____ Zip _____
 Phone _____ Date _____

**send a classified advertising message...
 ...write here.**

(Please Print) _____

- 1. Number of insertions: (circle) 1 2 3 6 12 TF (Til Forbid)
- 2. Start with (month) _____ issue (Copy must be in by 1st of month preceding)
- 3. Amount enclosed: \$ _____

PAYMENT MUST ACCOMPANY ORDER.

SIGNATURE _____ DATE _____
 NAME _____ COMPANY _____
 STREET _____
 CITY _____ STATE _____ ZIP _____
 PHONE NUMBER _____

MAIL AD COPY TO: DAWN ANDERSON, WEEDS TREES & TURF, 1 EAST FIRST STREET, DULUTH, MN 55802

RATES: 75¢ per word (minimum charge \$20.00) boldface words or words in all capital letters charged at \$1.00 per word. Boxed or display ads charged at \$70 per inch (one inch minimum). For ads using blind box number, add \$5 to total cost of ad.

ADVERTISERS

Reader Service Number

Page No.

- Adelphi Kentucky
Bluegrass..... 17
- 101 Aquatrols Corp. 62-63
- 102 BFC Chemical, Inc.51
- 103 Ciba-Geigy, Agri. Div. ...49
- 104 Davey Tree 11

- 105 Dow Chemical Co.
U.S.A.CV 2 & pg. 1
- 106 Clifford B. Hannay &
Son67
- 107 International Seed,
Inc.54
- 108 Irri-Trol Mfg., Inc.CV III
- 109 Jacklin Seed
Company28

- 110 Jacklin Seed
Company47
- 111 Lofts Seed, Inc.7
- 112 Lofts Seed, Inc.43
- 113 Lofts Seed, Inc. CV IV
- 114 Mathews Co.61
- 115 Mobay Chemical
Corp. 8-9
- 116 Monsanto Ag.
Products21
- 117 Mott Corporation70
- 118 National Irrigation
Specialists64
- 119 National Mower
Company60
- 127 Oregon Ryegrass
Commission.....56
- 120 PBI Gordon Corp. ... 32-33
- 121 Penfine 35-40
- 122 Ransomes, Inc.3
- 123 Toro.....53
- 124 Toro Irrigation5
- 125 Turf Seed..... 19
- 126 Vermeer Mfg.61

How to succeed by flailing



March 18, 1982

Dear Sirs:

Last year the Wheaton Park District purchased a testing unit Mott Model 88 Flail Mower, side and rear mounted. I specified exact flail mower of its type on the market.

We needed a very versatile mower that could perform well mowing slopes and also handle cutting down areas to water retention areas that has to be allowed to grow lower before ground conditions are firm enough to use it. It is necessary to have a mower unit that could be hung out over the side of a lawn for trimming and get the job done. The flail mowers have that our flail mowers achieve in our time test areas.

From our experience in handling all these tasks and have been a great asset as an addition to our mowing equipment. With the proper preventive maintenance schedule observed, it is also a very economical unit to keep in operation.

For anyone who has requirements such as mine I would highly recommend Mott Flail Mowers for consideration.

Terry Turquist
Terry Turquist
Assistant Superintendent
of Parks

**Read
how others did it
with MOTT flail mowers.**

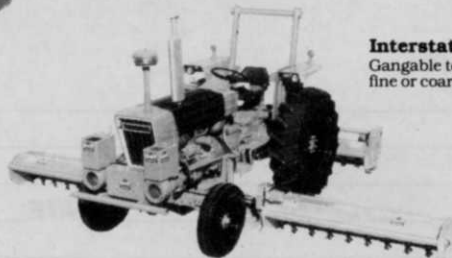
- Mow fine lawns • Shred weeds • Mulch leaves • Renovate
at lower cost through longer life with greater safety!

Improve your grounds maintenance operation with MOTT Flail Mowers. Call or write today for your free brochure, "How to Succeed by Flailing"

Heavy Duty
48", 60", 72"
fine cut only, reversible



Super Heavy Duty
48", 60", 74", 88"
fine or coarse cut for
higher h.p. tractors.



Interstater®
Gangable to 21'
fine or coarse cut



the original safety flail mowing system
MOTT CORPORATION

589 Shawmut Avenue • P.O. Box 518 • LaGrange, Illinois 60525
(312) 354-7220

Circle No. 117 on Reader Inquiry Card

NEW PRODUCTS

Reader Service

Page No.

- 130 Vandermolten.....60
- 131 Bermuda King60
- 132 Orbex60
- 133 Turfgrass Products61
- 134 Granberg.....61
- 135 Worksaver.....61
- 136 Chipmunk.....61
- 137 Progressive
Electronics.....62
- 138 Homelite.....62
- 139 Engineering Products ...62
- 140 Vandermolten.....63
- 141 Agrafim Irrigation63
- 142 Fairfield American63
- 143 Vemco63

This index is furnished for the reader's convenience. However, the publisher can not guarantee its accuracy due to circumstances beyond our control.