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And more machine! The 3210 is a medium sized, 30-HP-class machine that outweighs its competitors by close to a ton. All muscle. From rigid one-piece frame, to drive train and transmission, many of its components are rated for 40- and 50-HP-class units. With your choice of diesel or gasoline engines, it matches the muscle of larger machines.

As a Modularmatic[®], the 3210 can be equipped with a wide range of modules. Select the options you need for a variety of jobs.

Ask your Ditch Witch dealer for more details. You'll see that pound for pound, you get more machine, and more muscle!

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Inc., P.O. Box 66, Perry,
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ASPLUNDH

Curt Ogden Equipment Company has serviced the Tree Industry for the past twenty years. We carry every brand of bucket and truck with working height ranging from 40' to 110'.

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HI-RANGER

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CURT OGDEN EQUIPMENT CO.

500 S. Highway Dr.
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Circle No. 137 on Reader Inquiry Card

Does the condition of your turf make you see red?

Switching to Pennfine Perennial Ryegrass could color your outlook. It's long been the standard of quality against which other varieties are compared. Why not simplify your life? Go with the most widely used fine-leaved perennial ryegrass in the nation. By the way, if you have trouble finding Pennfine, just ask the turf pro with the best-looking turf around. Chances are he's already using it. Pennfine Perennial Ryegrass, P.O. Box 923, Minneapolis, MN 55440

Circle No. 140 on Reader Inquiry Card

Products from page 78

Front mounted flail mowers by Vemco in 48" and 60" widths have been released. These new additions to the line, powered by a front P.T.O. or electric clutch P.T.O., have 360° front mounted



caster wheels which allow easy turning and mower height adjustment.

There are three different blade styles—rock dodger, fine cut, and dethatching—to choose from.

Circle No. 169 on Reader Inquiry Card

Banol Turf fungicide, which showed highly effective Pythium blight control when tested on turfgrass, is now available for professional use on golf courses and lawns as the result of an EPA approved Experimental Use Permit. Marketed by TUCO Agricultural Chemicals, a division of the Upjohn Company, Banol Turf fungicide is a water soluble liquid concentrate with Propamocarb hydrochloride as its active ingredient.

Approved label use includes application of 1.3 to 4 oz. of Banol in 2-5 gal. of water per 1,000 sq. ft. as a preventive treatment when weather conditions favor development of Pythium blight. A repeat application may be made in 7-21 days if weather conditions remain favorable for disease development.

Circle No. 170 on Reader Inquiry Card

Tandem-drive utility truck from West Point Industries will haul payloads as large as 1,200 pounds. The A-500 Utility Master has a 27 cubic foot bed and a tandem drive that delivers power through all four rear wheels. An 8 h.p. engine, equipped with electric starter, alternator, and 12-volt battery, powers the little truck.

Continues on page 85



BUILT STRONGER TO LAST LONGER.

A chain saw that won't start, or cuts out in the middle of a job is no good to anybody. Job after job, year after year, you need a saw that will last. Whether you want a small saw that's super efficient or a big saw that can take the roughest handling, you need a Stihl.[®] Because Stihl saws are built stronger to last longer.

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ter what, they'll last longer than

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counts for a lot. So count on
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any job you'll ever take on,
to help you make a living, that
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The World's Largest Selling Chain Saw.

See Stihl's complete line of commercial power tools including brushcutters, hedge trimmers, earth augers, sprayer/blowers, and Cutquiks.[®] For sales and service, see Yellow Pages under "saws." For your local dealer's name, call toll-free 1-800-528-6050, Extension 1430. In Arizona call 1-800-352-0458, Extension 1430.

Big mover?

Looking for a machine that can make the big delivery for your tree-moving operations . . . up to 8" diameter trees? You can dig them with the new TS-84 Tree Spade from Vermeer. It's the largest tree-moving machine in the Vermeer line. Digs a gigantic 84" diameter tree ball, down to 54" deep. Over 8,000 lbs., transplanted in minutes! And, the best part? It's a one-man

operation. Six powerful "spades" lift both tree and root ball hydraulically. Ideal for developers, landscapers, large nurseries.

Too much machine for your operation? Vermeer makes four other models — on truck, tractor or trailer mountings — to fit your tree moving or "tree packaging" operations. Ask your Vermeer dealer for a demonstration today.



VERMEER TS-84 TREE SPADE: Digs tree ball 84 inches diameter, 54 inches deep. Hydraulic Controls. Self-locking rear assembly. 91-inch transport width.
FOR COMPLETE INFORMATION: Call Toll-free (800) 247-2347. In Iowa call collect at (515) 628-3333.

Get a taste of
**Vermeer
Quality**



**THE DIGGIN'
DUTCHMAN**

8808 New Sharon Road • Pella, Iowa 50219

Products from page 82

The hauler is highly maneuverable with a single front wheel and small overall dimensions. The turning radius is just 8 feet and the A-500 can slip through spaces as narrow as 58 inches.

Standard features include variable speed automatic transmission, disc brakes, a parking brake, welded all-steel frame, and steel box bed with exterior plywood inserts. Options for the A-500 include a selection of flat bed, dump bed, let-down metal loading ramps, lights and turn signals.

Circle No. 171 on Reader Inquiry Card

Quick-mount scoop options are now available with the Piggyback Material Handler by Princeton Manufacturing Company. The optional hydraulic or mechanical scoops have a 15 cu. ft. bucket capacity and are sturdily built with hardened, abrasive-resistant steel. The hydraulic scoop is apron mounted and recommended for more difficult or prolonged jobs. Special quick-mount hydraulic adaptors allow complete attachment in less than ten minutes. The mechanical scoop can be apron or fork mounted. Fork mounting



can be accomplished in a matter of seconds. Powders, scrap, sand, loose soil, chemicals and other bulk materials can be handled with the scoop, making the Piggyback forklift quite flexible.

Circle No. 172 on Reader Inquiry Card

Utility Scoop attachment for Excel's Hustler grounds maintenance tractors can carry up to 600 pounds of materials when used on 1981 Hustler tractors, with the exception of the model 261, which can carry 300 pounds. The Scoop is 60-inches wide with a 3/16 inch-steel scrapper blade that can be replaced easily. Volume of the scoop is 11.2 cubic feet.

The scoop is easily attached and adjusted to the tractor's "quick hitch" tool bar. Moving a clevis pin on the dump arm tube adjusts bucket curl. The operator controls the scoop using two levers to the right of the seat. An attachment lift lever is used to hydraulically raise or lower the scoop. The auxiliary hydraulic valve control lever is used to tilt and dump the bucket.



Drive wheel steering allows for operator control, and the weight of the machine is centered over the drive wheels to enhance ground traction. The scoop can be used for dirt, snow removal, grain, fertilizer, mulch, debris, or other material handling.

Circle No. 173 on Reader Inquiry Card

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LETTERS

Tree injection rebuttal

Dr. Funk's reply to "Pennsylvania" (WTT, June, 1981) reflected a narrow, misleading, uninformed view of Mauguet injections. None of the "data" Davey refers to has been published, has it?

1. Mauguet has advocated for the past two years in the N.E. the use of a *predrilled injection site* (11/64" diameter 3/8" deep into the xylem) as preferred to the insertion tool method of injection as demonstrated by published data (J. of Arbor. 6 (8) 1980).

2. Mauguet for the past three (3) years had *NOT* advocated "trunk injection" but rather *Rootflare Micro-injection* sites. There is a vast difference. These data have been published (J. of Arbor. 6 (8) 1980).

3. The "distribution and uptake" of chemical by 40 psi method is *not* advocated by many scientists. We do *not* require more than 6-8 psi in the Mauguet system to achieve very satisfactory "distribution and uptake."

4. Mauguet has had EPA label expansion for the use of Inject-A-Cide B to effectively manage the Bronze Birch Borer in Birch in the N.E. since 1978. Its continuing studies with dogwood borer are most encouraging as are studies with scales. They anticipate label clearance for both of these pests.

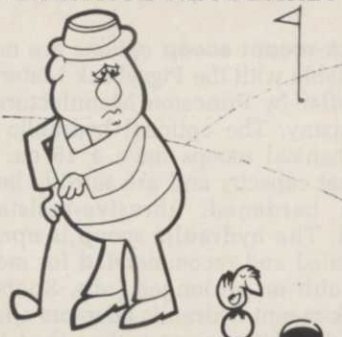
5. Dr. Funk failed to respond to the reader's question concerning "convenience" and "expense." There is no more "convenient," safe, labor efficient technology than the Mauguet method. Relative to costs — my results with the Mauguet Stemix-Hi Volume fertilizer via rootflare micro-injection average one third (1/3) *LESS* than conventional "soil fertilizing." Biological efficacy obtained is superior to conventional fertilizing especially with urban trees.

In Davey's "continuing research" on "trunk injections" I would strongly urge them to evaluate the Mauguet technology modified to use a drill and making injection sites in the root-flare of the tree. Davey has the opportunity to

refute the above statements or at the very least to move into a fuller understanding of the changing world of "tree injection" to allow better balanced answers to your readers.

Sincerely yours,
Arthur C. Costonis, Ph.D.
Systemics, Inc.
Westwood, Mass.

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Give Heart Fund
American Heart Association

Ryegrass

Now Has An Added Dimension Emergence of the highly successful, exceptionally handsome turf-type ryegrasses lends further credence to the historic claim that "ryegrass is the world's most widely used grass."

For years annual and perennial ryegrass have found a home where there is need for a fast-germinating grass which quickly forms a strong root system and forms a durable, inexpensive, easy-to-maintain turf.

Now added to the product line are the finer-bladed turf-type ryegrasses which rival the best of the fescues, bentgrasses and bluegrasses for turf quality.

They not only mix well with these varieties, the ryegrasses germinate in a matter of 7-10 days, mow beautifully and never need pampering.

That's why ryegrass — now more than ever before — is called "the versatile grass."

Ryegrass is truly the all-round performer.

Oregon Ryegrass Commission, Salem, Oregon

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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.

WANTED

Wanted—A Jacobsen 524-100 and a 548-100 seeder. In excellent condition. Call evenings (301) 896-3238. 9/81

Wanted: Used Stainless Steel Combines, that aerates, rolls, sprays liquid, as formerly used by Lawn-A-Mat dealers. Write: Conestoga Golf & Country Club., Conestoga, Ontario N0B 1N0 or call 1-(519) 664-2234. 9/81

WANTED: 75 Case 450 loader. Unit tool-flecko brush rake with clamps. 2460-stump grinder. Good condition for resale. G.M. 453 with clutch and PTO assembly. Edwards Tree Service Inc., 49090 Cooper Foster Park Rd., Amherst, Ohio 44001. (216) 988-4477—1/3 Mile East of Baumhart. 8/81

USED EQUIPMENT

AERIAL BUCKETS call P. C. Gould Sales Company Essex, Conn. (203) 767-1636. New and Used brush chippers, Vermeer stumpers, sprayers, Hydro-Ax's available for immediate sale. Or write P. C. Gould Sales Company, Plains Road, Essex, Conn. 06426. 8/81

Finn Straw Mulcher with asphalt applicator, powered by 4 cyl. Wisconsin engine Model VG4D. Green Valley Turf Farms Inc., Canfield, OH. (216) 533-3354. 8/81

For Sale. Brouwer Sod Harvester mounted on Moline tractor. Hadfield automatic sod pick-up and loading conveyor. Ryan sod cutters. All in A-1. (513) 424-5722. 8/81

7 gang Jacobsen Fairway Mowers with hydraulically powered reels, 1 year old, excellent condition. Mizu Fumigator, 10 ft., new 1980, never used. John Deere 2040 Tractor, front end loader and detachable backhoe, 2 years old, excellent condition. Floriturf, Inc., Kissimmee, FL. (305) 348-5906. 8/81

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

COMMERCIAL ROTARY MOWERS — 32" to 84". New — Like New — Used — Reconditioned. Yazoo, Excel Hustler, Howard Price Turf Blazer, Toro, Jacobsen, Simplicity, Bob Cat. Some demonstrators available. All sales on a first come, first serve basis. Call or write for current list. KEI, 3630 E. Munkwitz Ave, Cudahy, Wisconsin 53110. (414) 744-7646. 9/81

Yanmar 24 hp tractor, 233 hours, turf tires; 72" cut Danhussen mower, three point hitch, used one season; Ryan sod cutter walk behind, chop off, older model, used once, kept inside; two 72" cut Hustler 285's, 24 hp Koehler; Snow Blower/cab, mounts on 285; Yazoos: 16 hp Briggs 48", 18 hp Wisconsin 60"; two 8' Western snow plows, used one season; Meyers salt spreader, fiberglass hopper. Inquire Motz, 6749 Main Street, Cincinnati, OH 45244. (513) 271-5296. 8/81

TREE SPRAYER, Trailer mounted, 200 gal tank, John Bean 20/20 pump, 12 HP elec start motor, 785 spray gun, approximately 150' hose w/reel. H&H Tree Service, Box 2007, Jonesboro, AR 72401. (501) 932-9987. 8/81

SPYDER FORKLIFT, with Trailer \$10,500. Excellent condition. (214) 465-6606 or (214) 465-8550 after 6 p.m. 8/81

1978 Hodges self-propelled stump grinder. 80 hours, stored inside, good condition, delivery possible. \$1850.00. Rossville, IL (217) 765-3041. 8/81

For Sale—A Lely turf shaper. 5-foot. Less than 30 hours. Very good condition. \$4350. Call evenings (301) 896-3238. 9/81

For Sale: Vermeer 665 Stump Grinder; Wayne 12" Brush Chipper; Skyworker 50' Bucket Truck; Bombadier Track Brush Cutter; Kershaw 10' Wide Brush Cutter; Windham Self-propelled Log Loader. Call (404) 323-0428. 8/81

For Sale—Four Morris Slurry Centrifugal Pumps, Type 2JC11. Suction Port—3", Exhaust Port—1½", with or without a Cross hydraulic motor and coupling. Extra parts, new and used. For further information, please contact: David Allen, c/o W.S. Connelly and Company, Inc., P.O. Box 88, Salem, VA 24153. (703) 389-9677. 8/81

FOR SALE: TS-44 VERMEER TREE-SPADE on 1977 4-Wheel Drive D-400 Dodge with extras. In great working condition. Shadetrees, Inc., Rt. 5, Box 429, Starkville, MS 39759. (601) 323-2568 before 7:00 am or after 6:00 pm. 9/81

TREE REMOVAL TRUCK. 1958 Chev. Viking—60, 5 yd dump with Prentice cable-loader. All in good appearance & mechanical condition. Replaced by new. \$4500.00. Phone week-ends before 9:00 A.M. (608) 539-2891. 9/81

FOR SALE: Vermeer stump grinder #2460. Ready to go to work. Excellent Condition. \$7,000. For more information, call Floyd's Tree Service (804) 420-6396. 8/81

MISCELLANEOUS

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. 1/82

LANDSCAPE DESIGN KIT, 37 rubber symbol stamps, ink pad, \$38.50 postpaid. California add \$2.16 tax. Stamps kit brochures available. American Stamp Co., Box 741, Dept. WT, Reseda, California 91335. Phone (213) 881-2808. TF

Increase your profits this year with "Garden Tips" the monthly customer newsletter with your company name/phone. Proven response . . . cements customer relations, gets them to spend more, opens new doors expertly in new expansion areas. Low cost, effective profit building. Call today (516) 538-6444, we'll send complete information or write: Garden Tips, Box 117, Garden City, NY 11530. TF

BUSINESS OPPORTUNITIES

EROSION CONTROL business. Excellent opportunity for MBE Contractor work under contract is twice asking price. St. Louis, MO. Phone (314) 838-4794. 8/81

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

HYDRO SEEDING BUSINESS — Limited number of franchises available in the Baltimore/Washington area. Write WTT Box 273. 9/81

Specialty Chemical Corp. seeking independent agents to call on golf courses, sports stadiums, grove services, manufacturing plants, municipal governments. Protected accounts, mail order credits, training program, no fees. **EXCITING LINE.** Write Ducor Chemical Corp., P.O. Box 13298, Orlando, Florida 32809 (305) 859-4390 8/81

FOR SALE

COLORADO NURSERY—This 10 year established business has snowplowing in the winter, nursery and landscaping in the summer. Assets over \$200,000. Sales ½ million with high growth potential. Equipment includes 3 loaders, 2 dump trucks and 8 pickups with snowplow blades. Price: \$350,000, \$150,000 down. Balance at 15% over 3 years. Volitar Nursery, 1030 So. Frontage Rd., P.O. Box 881, VAIL, COLORADO. (303) 476-3047.

Continues on page 88

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Florida—West Coast—Profitable and extremely well organized **lawn service business**. Excellent written top contracts with top commercial clients grossing **\$200,000** per year with high net. Good opportunity for couple wishing to move South. Owners will provide training and ensure smooth take-over. Florida State Business Brokers, Inc., 1321 U.S. 19 South, Clearwater, Florida 33516. (813) 536-0444. 9/81

FOR SALE — Garden Center and Landscape Business in Central Ohio. Located at the ideal site in medium sized community. Price of \$215,000 includes property, buildings, all landscaping equipment. Inventory valued at \$45,000. Present owner willing to stay as manager. Partial (50%) purchase option available also. Write WTT Box 272. 8/81

For Sale — 2 Billion Turf Seeders, 10-foot pull type, 1-Ashland Land Leveler, 3-Foxcroft Spider Forklifts. Terms: cash. For more information contact: Roger Hoffman, Small Business Administration, 373 Collins Road N.E., Cedar Rapids, Iowa 52402. (319) 399-2571. 8/81

For sale or rent — 78 in. Big John Tree Mover mounted on C-90 Chevy. 30,000 miles both new in October 1978, not used in 1980. Excellent condition. Many extras. Phone (517) 627-6200. 9/81

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

HELP WANTED

CAREER OPPORTUNITIES with the sod industry leader. Due to the rapid on going expansion of our North American sod production capability, The Manderley Corporation is looking for management personnel. If you are interested in a career in agricultural management with an aggressive, fast moving company, we want to hear from you. Apply in writing to: The Manderley Corporation, R.R. #3, North Gower, Ontario K0A 2T0, Canada. Attention: Director of Personnel. 10/81

Help-Wanted — Landscape Foreman — Large commercial landscape contractor needs several top notch Planting Foremen for our commercial work. Year round work, salary negotiable. Good benefits. Long term opportunity. Call Landcaster Landscapes — Area Code (202) 471-4310 or send resume to: Landcaster Landscapes, Route 1, Box 397, Leesburg, VA 22075. 8/81

Wanted: Landscape designer with garden center experience. Salary commensurate with experience. Please send resume to: Edwards Tree Service, Inc., 49090 Cooper Foster Park Rd., Amherst, Ohio, 44001. (216) 988-4477 — 1/3 Mile East of Baumhart. 8/81

CHALLENGING CAREER. Above average pay; Two year associate in applied science degree in Golf Course Operations/Landscape Technology. Financial assistance available. Write Western Texas College, Snyder, TX., 79549. (915) 573-8541. 9/81

BRANCH MANAGER: Chemical Lawn Care firm is accepting applications for Managerial position. Must be experienced in route and service type business, responsible for sales personnel and administration. Must be willing to relocate in Ohio, Indiana or Kentucky areas. Write WTT Box 270. 11/81

AGRICULTURAL, HORTICULTURE INSTRUCTOR—Full-time permanent position (173 days). Salary—\$13,649 to \$21,824, depending on education and experience. Starts 9/14/81. Bachelor's Degree in Horticulture, Agriculture or Biological Sciences required. Contact Clark College Personnel Office, 1800 E. McLoughlin, Vancouver, WA 98663, (206) 699-0105, prior to August 20, 1981. 8/81

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Golf Supt.—Experienced in all phases of golf operations in northern and southern turf. Resume on request. Phone (813) 542-7326. 8/81

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Does your turf's appearance make you feel blue?

Then it's time you started using Pennfine Perennial Ryegrass. Pennfine has proved itself for nearly a decade with the toughest customers of all: Thousands of turf pros all across the nation. It's used consistently on many of the nation's most prestigious turf areas. It should be on yours as well. Pennfine, the best-selling fine-leaved perennial ryegrass available. Pennfine Perennial Ryegrass, P.O. Box 923, Minneapolis, MN 55440

You just can't buy a better mowing tractor.



It's been proven time and again, day after day, acre after acre. You just can't buy a better cutting mowing tractor. For a very convincing demonstration, call your Jacobsen Distributor.

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