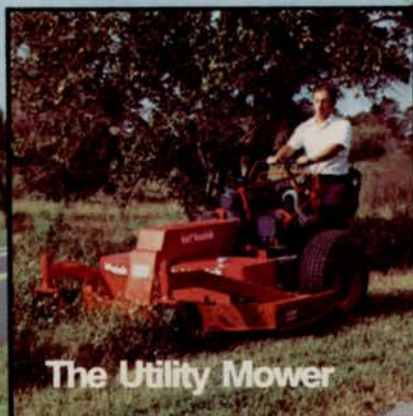


Tough mowers... from rough cut to smooth finish.



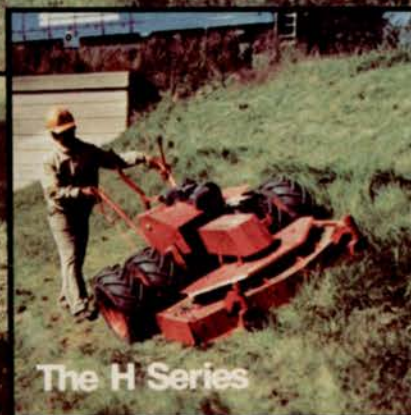
The SlopeMaster



The Utility Mower



The HT Series



The H Series



The J Series

Built for the commercial user, to assure lowest operational cost through efficient design, low fuel consumption, low maintenance, and long life. Built to take the hard usage of the commercial mower operator and the environment in which the commercial mower functions.

kut-kwick

Brunswick, Georgia 31520
Telephone 912/265-1630

Circle No. 125 on Reader Inquiry Card

YOU CAN ROUNDUP®



AND



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USE



Lots of lawn care jobs you do are easier and faster with Roundup.

Wherever you use it, Roundup® herbicide helps make weed control around your customers' homes fast, easy and effective. Just one application of Roundup controls tough labeled weeds right down to the roots, so they won't grow back. That means less need for time-consuming repeat treatments.

And Roundup has no residual soil activity, so it can't wash or leach from treated areas to injure desirable vegetation.

Whether you apply Roundup with a backpack sprayer or a hand-held wiper, it effectively controls weeds

wherever they grow. Around shrubs and bushes. In sidewalk cracks. Along driveways. At the base of trees. Along fences. In and around flowering ornamentals. Spot lawn renovation. Edging around obstacles. You name it—there's virtually no limit to the uses of Roundup!

So reach for Roundup before you begin your next lawn care job. It'll help make weed control faster and easier—which can mean more profit for you.

FOR A FREE GUIDE TO ROUNDUP, CALL 1-800-621-5800 TOLL FREE. IN ILLINOIS, CALL 1-800-972-5858.



Monsanto

LETTERS

Tax loss appraisals

In Roger Funk's January 1982 column there is an important error. In answer to a question: "Where can I obtain more information on the losses that can be deducted from Federal income taxes?" Dr. Funk says this: "The IRS will accept appraisals made by consulting arborists approved by the Council of Tree and Landscape Appraisers in Washington, D.C."

This is not true. The Council is not a membership organization and does not have any kind of list of "approved" consulting arborists. CTLA may be swamped with requests from tree and landscape professionals to be included on this non-existent list. And, the IRS may come knocking at our door to find out what we are doing.

CTLA does not certify anyone as an appraiser. It's service to the Green Industry is a system which enables professionals to determine a reasonable value for trees in case of damage or destruction. We make this guide avail-

able to anyone interested. The system was developed by leading horticulturists and therefore is well respected.

Paul Dawson
Director of Communications
Council of Tree and Landscape
Appraisers
232 Southern Building
Washington, D.C. 20005

The meaning of native

I note in Douglas Chapman's article on native shrubs (Dec. 1981) a statement that *Symphoricarpos albus* was brought to this country in the late 1800's. This indicates that it is present in the wild only as an escape. It is actually indigenous to north-eastern North America and thus appropriately included as a native.

If it were true, as Chapman indicates, that it was introduced, it has no place being included as a "native shrub." This question becomes further complicated when one thinks of plants native

to national political boundaries or endemic to smaller regions, based on soil and climate.

Another question concerns the use of the word "backbone." I can not imagine structuring either a home or commercial planting around any of the four shrubs described.

I certainly support Chapman's notion of using native plants despite the quibbles.

Charles W. Cares, Professor
Landscape Architecture
The University of Michigan
Ann Arbor, MI 48109



Every National has it... Little decal, Big Savings!

More than telling you belt sizes used on National mowers, the decal tells you that these are standard, off-the-shelf items available from any local industrial supplier, not a special, high-priced part you must order from the manufacturer. And there are a lot more savings with a National...

- **Greater fuel economy.** 44% to 62% less fuel consumption than power robbing, hydrostatic type rotary mowers.
- **National's initial cost is less** than that of mowers sold to do the same job.
- **One-third to one-half the cost** of maintaining a National versus competitive models because of its easy accessibility.



Write for the name of your nearest dealer—then call for a demonstration.

- **Model 84 gets the job done faster** by cutting a swath a foot wider than a rotary.
- **Quality construction.** More years of service. For example, we still cut our own gears out of solid, quality steel blanks.



MODEL JTS-180



MODEL 68

Building functional quality since 1919



**NATIONAL
MOWER COMPANY**

660 Raymond Avenue, St. Paul, MN 55114
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Circle No. 136 on Reader Inquiry Card

Banvel® 4-S Herbicide gets a powerful new tank-mix label. So you'll get all the extras.



Banvel® 4-S Herbicide has a new label that gives you greater application flexibility. You can now tank-mix Banvel 4-S to add more weeds to your controlled list. And to get all the extras you want in a tough, dependable herbicide.

Extra options for tank-mixing.

You can now use Banvel 4-S Herbicide in a variety of combinations. Tank-mix it with 2, 4-D. Or MCPA. MCPP. Even bromoxynil. More than ever, Banvel 4-S fits your tank-mix preferences.

Extra control in a weed and feed program.

With its new label, Banvel 4-S can be applied using either sprayable liquid fertilizer or water as the carrier.

Extra broadleaf weed control.

The new Banvel 4-S label puts you in control of more weeds, including many of your worst problem broadleaves.

Extra application flexibility.

You're no longer limited to one application per year with Banvel 4-S Herbicide. Used at low rates, Banvel 4-S can be applied in retreatment programs up to two pints per acre during a growing season. Plus, Banvel 4-S can now be used on non-cropland, brush areas, fencerows and roadways, as well as turf and lawns.

Check all the extras you get with Banvel 4-S Herbicide's powerful new tank-mix label. See your lawn or turf chemical supplier today for more information.

*Banvel Herbicide is a registered trademark of Velsicol Chemical Corporation. Before using any pesticide, please read the label.



VELSICOL
CHEMICAL CORPORATION

Velsicol Chemical Corporation,
World Headquarters
341 East Ohio Street, Chicago, Illinois 60611

Circle No. 154 on Reader Inquiry Card

PRODUCTS

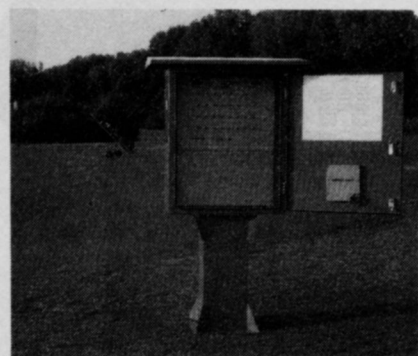
National Irrigation Specialists have developed a hand held electronic instrument for checking solenoid valves, wiring, and clock contracts in irrigation



systems. The Checkmate comes complete with test cables, battery recharger and functions for approximately 20 hours on a single charging.

Circle No. 160 on Reader Inquiry Card

Hugh McKay Associates is offering management services in computerized resource management systems, computerized landscape maintenance and golf and recreation management. The Resources Management System for ir-



rigation controls quantities of water and fertilizer, pressure limits, flow rate limits, and soil moisture. The Landscape Maintenance System handles inventory, schedules operations, management analysis, operating cost analysis and allocation of resources.

Circle No. 161 on Reader Inquiry Card

Vermeer Manufacturing Company has recently introduced a 30-horsepower utility trencher with four-wheel-drive, power steering and a Wisconsin gas engine or 1.196 liter engine. It digs 5-16-inch diameter, down



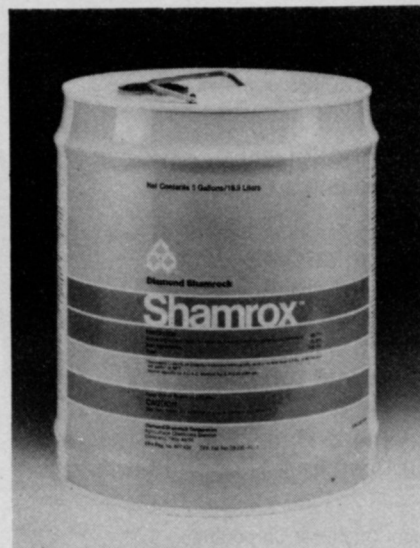
to 60-inches. The four way backfill blade, with replacable grater edge lifts, tilts and angles 30 degrees left and right.

Circle No. 162 on Reader Inquiry Card

T.H. Agriculture and Nutrition Company has relabelled Dimilin W-25 insecticide to clear its use at lower rates, to allow it to be used in sparsely inhabited forest areas, and to permit its sale to certified applicators. According to the manufacturer, Dimilin W-25 controls Gypsy Moth larvae with little or no effect on parasites or predators of the moth.

Circle No. 163 on Reader Inquiry Card

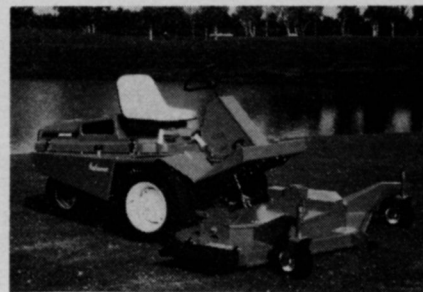
Diamond Shamrock has announced the availability of two MCPA herbicides, Vacate and Shamrox. Shamrox is recommended for the control of weeds on fence rows and roadsides. Vacate



was previously marketed under the MCP Amine 4 label and is applicable to lawns and golf courses.

Circle No. 164 on Reader Inquiry Card

Smithco's Performer is a hydrostatic front powered mower with an extra wide single rear wheel for a smaller turning radius. It has a choice of two engines: the Briggs and Stratton 18



horsepower twin cylinder air cooled, or the Kohler 23 horsepower twin cylinder cast iron engine. The mower also features air flow with rear heat discharge and separate hydraulic oil cooling reservoir.

Circle No. 165 on Reader Inquiry Card

Vermeer Manufacturing Company now has a feed stop gate on its 1600 brush chipper. The system shuts down the ignition and power when any one of



three activator bars are tripped, as well as dropping a spring loaded gate in front of the cutting rotor.

Circle No. 166 on Reader Inquiry Card

Reinco has adapted its TM7-30X hay mulcher to accommodate diesel power



Continues on page 68

"Mitsubishi tractors—the tough team that's never sidelined."

Bum Phillips, Head Coach, New Orleans Saints



In my business, I demand pro performance, the first time and everytime. That's why I want to tell you about the Mitsubishi line of two and four-wheel, mid-size tractors. Tractors built tough, to tackle all your landscaping and turf maintenance jobs, reliably and economically year after year.

Whether it's the compact Beaver, the economical Bison Diesel or the 38 hp, rugged Stallion, all Mitsubishi tractors can handle the implements you need for mowing, load-

ing, grading, snow removal and lots more. And Mitsubishi's multi-cylinder, water-cooled, diesel engines keep fuel consumption low and performance consistently high.

Designed with you, the grounds maintenance professional in mind, Mitsubishi tractors have tough-job features like a differential lock for greater traction, live hydraulics for really accu-

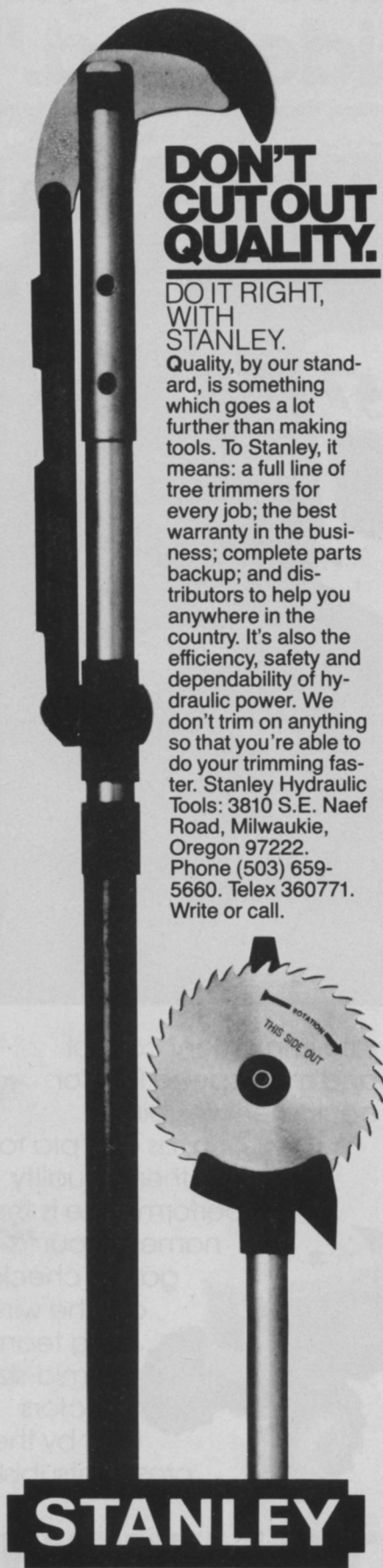
rate implement control and multi-speed PTO for equipment flexibility.

So, as one pro to another, if quality performance is the name of your game, check out the winning team of mid-size tractors built by the pros—Mitsubishi.



Bison Diesel
30 hp

 **MITSUBISHI**
Built by the PROS



DON'T CUT OUT QUALITY.

DO IT RIGHT, WITH STANLEY.

Quality, by our standard, is something which goes a lot further than making tools. To Stanley, it means: a full line of tree trimmers for every job; the best warranty in the business; complete parts backup; and distributors to help you anywhere in the country. It's also the efficiency, safety and dependability of hydraulic power. We don't trim on anything so that you're able to do your trimming faster. Stanley Hydraulic Tools: 3810 S.E. Naef Road, Milwaukie, Oregon 97222. Phone (503) 659-5660. Telex 360771. Write or call.

STANLEY

Circle No. 148 on Reader Inquiry Card

units. According to the company, the diesel capability will make it the most efficient medium sized hay mulcher on the market.

Circle No. 167 on Reader Inquiry Card

O.M. Scott and Company has brought out fungicide 7 to control dollarspot, brown patch and rust. It was developed for use on bentgrass, annual bluegrass,



Kentucky bluegrass, perennial ryegrass and fine fescue. It is a granular product which may be applied in a drop-type rotary or Lely spreader.

Circle No. 168 on Reader Inquiry Card

The John Deere 650 is a compact utility tractor providing 14.5 hp at the PTO. Powered by a 2-cylinder, water-cooled 52.1 cubic-inch diesel engine, it features a sliding gear transmission with eight forward and two reverse speeds, and a ground clearance of 11.3 inches. Power steering and mechanical front-wheel drive are optional.

Circle No. 169 on Reader Inquiry Card

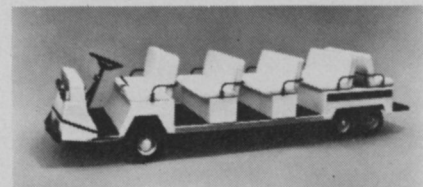
Vrismo Manufacturing Inc. is offering the Mighty Max flail mower that pulverizes light brush as well as acting as a



lawn mower at the same time. It comes with standard scoop knives, that cut a width of 46 or 58 inches, and can be pulled by a low horsepower tractor.

Circle No. 170 on Reader Inquiry Card

Eagle Vehicles is distributing a line of commercial cars under the Pargo name. The line includes People Mov-



ers in four, six or ten passenger models. The line also includes the Bar Car hospitality car with drink wells and storage compartment.

Circle No. 171 on Reader Inquiry Card

Uniroyal Chemical is once again marketing Maintain® growth retardants for trees, shrubs, vines and grass. The first product to be reintroduced will be Maintain CF-125 an emulsifiable concentrate for spray type applications.

Circle No. 172 on Reader Inquiry Card

Continues on page 70

Pump 42,000 GPH with Moulton's Torrential.

The ideal golf course pump for low spots that flood early — ditches — water hazards — and other problem areas. This TORRENTIAL unit is self-powered, self-priming, floating and portable. Will handle any object that will pass through a one-inch screen opening.

moulton irrigation industries inc.

Somerset, Wisconsin 54025 • Phone: 715-247-3321 • MN Phone: 612-439-8904



Circle No. 135 on Reader Inquiry Card

Since 1948

Nitroform[®] paints a pretty picture



Nitroform[®] provides a consistent 38% nitrogen that's released by soil bacteria slowly and predictably — just when it is most needed to make turf and ornamentals green and healthy. And Nitroform continues this slow, steady release to sustain growth for over six months (even during periods of sparse rainfall).

You'll find Nitroform nonburning, nonstreaking, nonleaching. It's easy mixing and clean handling, too. This versatile nitrogen source is available in Blue Chip[®] for dry applications, Powder Blue[™] for liquid use, and it can be mixed and applied with insecticides and fungicides.

When you're buying a complete fertilizer be sure to check the label to see that it contains Nitroform, the most efficient source of Water Insoluble Nitrogen.

Nitroform can do beautiful things for your business.



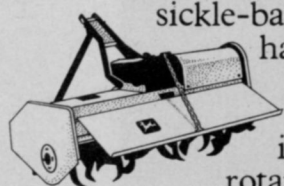
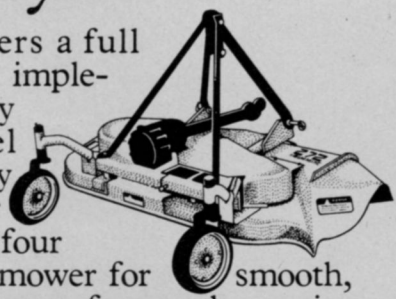
BFC CHEMICALS, INC.
4311 LANCASTER PIKE, WILMINGTON, DE 19805

Circle No. 107 on Reader Inquiry Card



Even if you don't own a John Deere tractor, you can still have John Deere behind you.

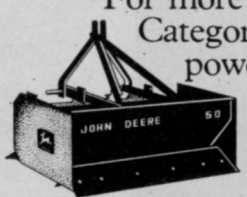
John Deere offers a full line of quality-built implements to fit nearly any make of small diesel tractor with a Category 1 3-point hitch. For example, there are four mowers: a grooming mower for smooth, even cuts; a rotary cutter for rough terrain; a flail mower for trashy conditions; and a sickle-bar mower for roadsides and hayfields.



For landscaping, John Deere has hitch-mounted implements including a rotary tiller, a box scraper, a rear blade and a post-hole digger. Of course, we also have a full line of hitch-mounted farm implements.



So even if your tractor isn't green, you can make it do more when you put John Deere behind it.



For more information about John Deere Category 1 3-point hitch implements power-matched to small diesel tractors, see your John Deere dealer or send for a free leaflet.

To find out how John Deere implements can increase the versatility of your small diesel tractor with a Category 1 3-point hitch, send for a free descriptive folder. Mail this coupon to John Deere, Dept. B147, Moline, IL 61265.

Name _____
 Address _____
 City _____
 State _____ Zip _____

WT

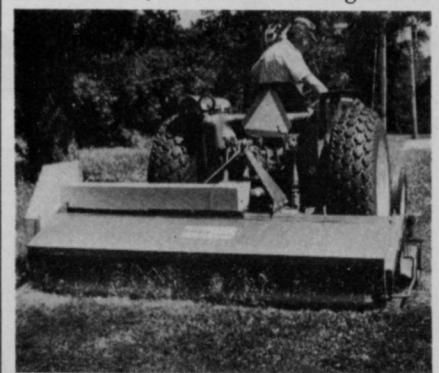
Nothing Runs Like a Deere®



Circle No. 111 on Reader Inquiry Card

PRODUCTS from page 68

Mathews Company presents a heavy duty flail machine featuring a 8-5/8" diameter rotor, reversible mowing knives



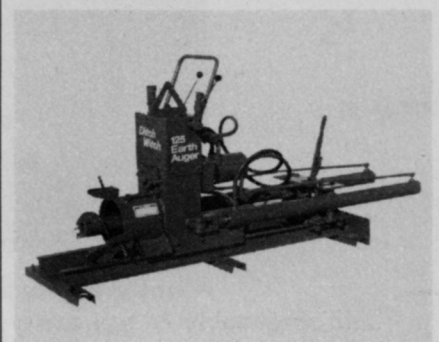
and 13-inch caster wheels. P.T.O. drive and floating links permit free vertical and lateral movement.

Circle No. 173 on Reader Inquiry Card

The Jacklin Seed Company suggests using Reubens Canada Bluegrass for roughs and marginal maintenance areas. Reubens produces a low-growing, dense turf that can help prevent soil erosion and water runoff according to the company. Its aggressive rhizome growth and tiller development are claims for Reubens as an effective choice in moderately dry, barren soils.

Circle No. 174 on Reader Inquiry Card

Ditch Witch now has the model 125 Earth Auger horizontal boring unit which can bore holes with diameters of 3- to 8-inches to lengths of 140 feet. The



unit may be powered by a Ditch Witch Power Pac 12 or several underground construction vehicles equipped with manifolds.

Circle No. 175 on Reader Inquiry Card

F.E. Myers Co.'s new 500 gallon Sprayer Series are equipped with fiberglass tanks, built-in baffles and splash-proof mechanical lock down lids. Frames of heavy-duty steel channel with steel tank supports have been

Continues on page 74