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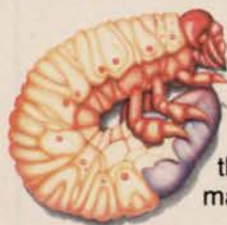
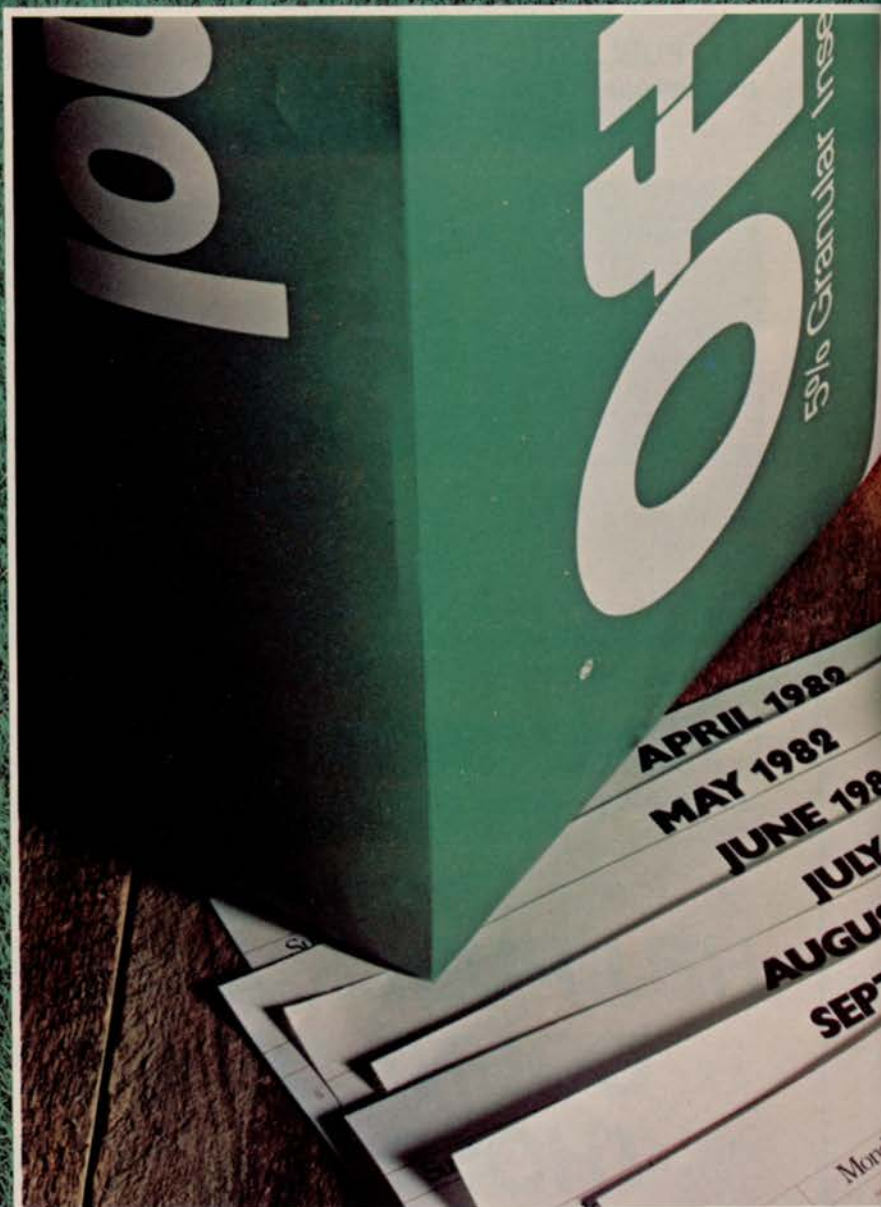


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One shot.
No other
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controls
white grubs
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for so long.**

The use of OFTANOL for turf pest control is registered in many states. Check with your state extension office for registration information.



One-shot white grub control with OFTANOL represents a dramatic breakthrough in turf management.

With a single application at the recommended rate, OFTANOL controls white grubs through the entire season.



But that's only part of the story.

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For example, apply OFTANOL for the first infestation of surface feeding insects. You'll establish season-long white grub control at the same time.



And it doesn't
stop there!



Or, treat for *Hyperodes* weevil in the spring. You'll also receive white grub control for the entire season.

Other insecticides requiring multiple applications can't provide this performance and flexibility.

OFTANOL has other advantages, too: won't tie up in thatch . . . resists leaching . . . doesn't require watering in.



Circle No. 124 on Reader Inquiry Card

No wonder OFTANOL is the new insecticide turf managers are asking to learn more about. OFTANOL can fit into your insect control program, too. Ask your turf chemicals supplier for this free OFTANOL FACTS brochure.

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to anything less.



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VEGETATION MANAGEMENT

By Roger Funk, Ph.D., Davey Tree Expert Co., Kent, Ohio

Q: What causes the galls on the stems of oleander, and how can we control them? (Florida)

A: Both fungal and bacterial galls have been reported on oleander but, unfortunately, neither can be controlled with chemicals. Cut off and destroy the infected parts, and sterilize the pruners between each cut with alcohol or clorox.

Q: Stripe smut is the number one problem in our area. I would appreciate knowing the latest practices for controlling this disease on homeowner lawns. (Ohio)

A: Stripe smut disease called by *Ustilago striiformis* (West.) is the most common systemic disease of Kentucky bluegrass (*Poa pratensis* L.) in the United States and is considered to have no good control. The success or failure of a disease management program is dependent upon prompt diagnosis and the proper timing and application of fungicides as well as proper cultural practices.

The first symptoms are long, parallel, yellowish streaks on leaf blades which darken as the disease progresses. Blades finally rupture, exposing black, sooty spores after which the shredded blades turn straw-colored, shrivel and collapse.

The fungus reactivates in spring or fall resulting in gradual decline of turf. Intensive irrigation and fertilization can promote progressive decline by thinning the turf. There is some evidence that sodded lawns decline faster than seeded lawns. Diseased areas may be from an inch to more than a foot in diameter.

Some of the factors contributing to the progress of stripe smut are susceptible cultivars, heavy thatch, cool temperatures (50°-60°F.), intense irrigation, and heavy fertilization.

New growth can be infected by systemic spread of disease. Best control can be achieved by use of relatively resistant Kentucky bluegrass cultivars, moderate cultural practices and use of fungicides. Your local extension service should be able to help you select cultivars best suited to your area.

For established turf in home lawns, proper management practice should minimize the disease.

Do not overfertilize or irrigate turf heavily where the disease is present.

Systemic fungicides, such as benomyl (Tersan 1991) and the thiophanates (Clearly 3336, Fungo 50), applied once or twice in early spring and mid-to-late fall and heavily watered into the soil for maximum absorption by the roots, may prevent but will not eradicate the disease.

There is some evidence that the stripe smut pathogen (fungus) may develop resistance to systemic fungicides. Therefore, use a single application in the spring and fall if possible, but do not exceed two applications in either season. READ THE LABEL AND FOLLOW THE DIRECTIONS.

Q: How effective are the fluid limestones that are being used by some lawn care companies? (Pennsylvania)

A: Fluid limestones contain limestone particles ground to a fineness of at least 200 mesh and clay to help keep the limestone in suspension.

The effectiveness of any limestone in neutralizing soil acidity is dependent upon its carbonate content and particulate size. Limestones coarser than 20 mesh are very slow to react and have limited value in turf management; limestones finer than 100 mesh react within several weeks after application.

Because of their fineness, fluid lime reacts very quickly. However, dry limestone of the same fineness will react at the same rate.

Fluid limestone has two advantages over the use of dry limestone: it can be spread more evenly and has no dust problem. The biggest disadvantage is the volume of material handled. Since a fluid limestone mix will contain about 50% limestone, it requires twice as much on a weight basis as an equivalent limestone applied dry.

Q: What do you think about the new plastic foam sheets to protect container stock during winter? (Ohio)

A: In 1979, Dr. Gouin, Professor of Horticulture at the University of Maryland, reported that conventional techniques of overwintering container-grown plants cost about four times more than protecting plants with polypropylene microfoam sheets. I suggest that you contact Dr. Gouin for the current status of his research.

Q: Can siduron be used to prevent crabgrass when seeding Kentucky 31 tall fescue? (Idaho)

A: According to a study conducted at the University of Nebraska, siduron can impair establishment of Kentucky 31 even when applied at the recommended rate. It is recommended that the Kentucky 31 seeding rate be increased by 10% and that the seed be applied as early as possible in the spring. The application rate of siduron should not exceed six pounds per acre.

Q: Could you tell me where I can buy a product called Deer Away? Will it protect young conifers? (Michigan)

A: If you contact the Weyerhaeuser Company which has been assigned the patent for Deer Away, I am sure they could provide the name of the nearest distributor. We have not tested Deer Away, but it is registered with the EPA as a deer repellent for conifers, seedlings, ornamental plantings and orchards.

Send your questions or comments to: Vegetation Management c/o WEEDS TREES & TURF, 757 Third Avenue, New York, NY 10017. Leave at least two months for Roger Funk's response in this column.

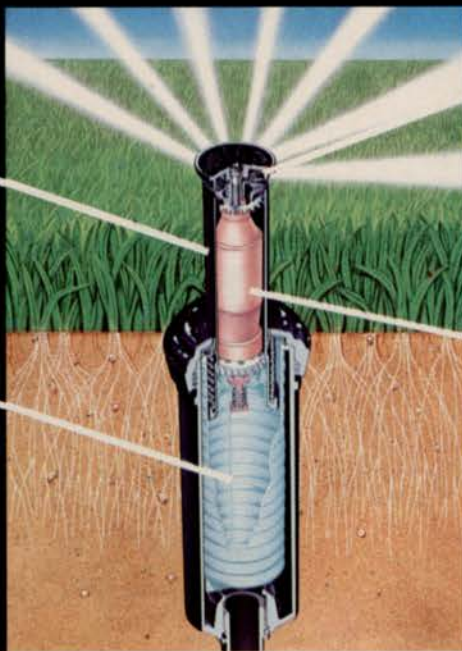
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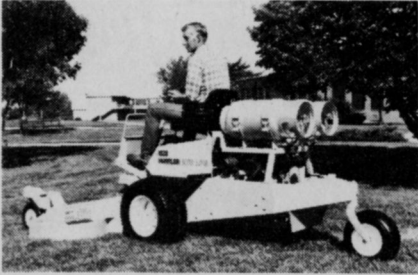


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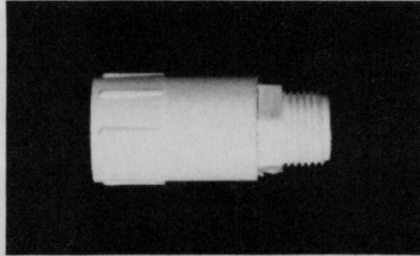
PRODUCTS

Excel now has a propane powered turf and grounds maintenance machine. The machine is run on a 21.5 hp Kohler engine designed to operate on low cost propane. The simplified fuel system of the Hustler 275LPG requires less up-



keep than a gasoline engine. The available attachments include a 72-in., three way mowing deck, a 72-in., side discharge deck, a 72-in. heavy duty deck, 60-in. V blade, 54-in. snow thrower and a 60-in. rotary broom.

Circle No. 148 on Reader Inquiry Card



King Brothers has developed a device to prevent the theft of valuable sprinkler heads. The plastic Head-Lok fits between the riser and the sprinkler head below grade and swivels when vandals try to remove the head from above ground. The Head-Lok comes in 1/2-in., 3/4-in. and 1-in. sizes.

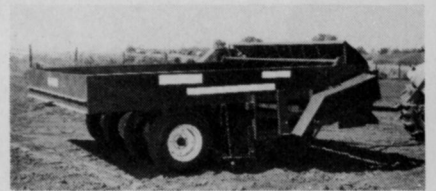
Circle No. 149 on Reader Inquiry Card

Midmark Corp. has the 440 hydrostatic trencher with a 44 hp diesel engine. Available with either a 43,000-lb. or a 70,000-lb. digging chain, it can create a

trench as wide as 18-in. and as deep as 72-in. The 440 also backfills with ease because the operator has a clear view of the trench and the six-way blade control can raise angle or tilt blade as needed. The 440 can be equipped with a boring Work Mate which will bore up to 4-in. in diameter without disturbing the surface.

Circle No. 150 on Reader Inquiry Card

Bermuda King has designed a special sprig planter for golf course fairway planting and landscaping. The Fairway Special can lay down up to 300 bushels of sprigs per acre, of all sorts of vegeta-



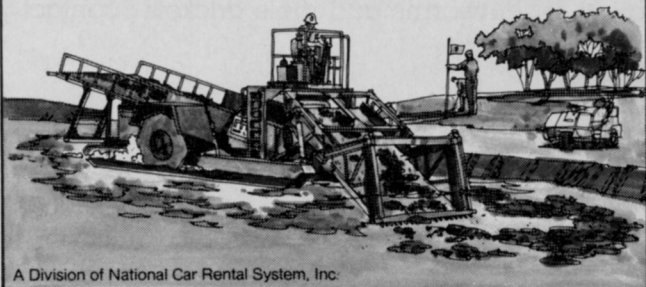
Continues on page 60

Clean Up Lakes, Ponds, River Fronts.

New Aquatic Weed Harvester removes both floating and submerged weeds to restore natural ecological balance and preserve fish habitat. Two independently controlled paddle wheels resist clogging even in heavy golf pond weed beds. . . unsurpassed maneuverability even around marina docks. Floats in inches of water, permitting cutting close to shore. Rotating vertical side feeders direct weeds into automatic conveyor to keep cuttings from floating away. Easily trailered from pond to pond without damaging turf. Backed by Mud Cat's international reputation for reliability and ease of operation.



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- Summer - Mows and loads clippings in quick-dump hopper
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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.

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Iron Horse Quality Equipment

Circle No. 122 on Reader Inquiry Card

How to succeed by flailing

GEORGE J. PRIESTER
P.O. Box 518
LaGrange, Illinois 60525
September 2, 1978

Mr. John Wilcox
Mott Corporation
500 Shawmut
LaGrange, Illinois 60525

Dear Mr. Wilcox:

We are very happy with our Mott Mower. We like the concept used to cut the grass as it has eliminated the problem of throwing stones and rocks into windows and denting aircraft which was one of our major concerns.

We are now using one mower and one man to do the work that three men used to do. The maintenance cost has been at a minimum and the down time on equipment has been very insignificant.

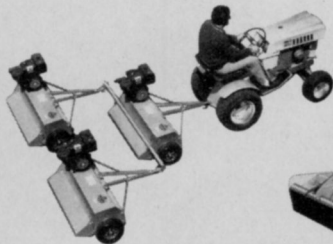
Regular lubrication schedule has been set up which we feel is vitally important and has most certainly contributed to the low down time and the efficiency of the equipment.

Sincerely,
George J. Priestler
George J. Priestler
GEORGE J. PRIESTER AVIATION SERVICE

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

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38", 48", 60"
For tractors up to
25 PTO h.p. maximum

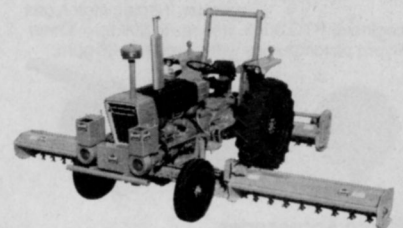
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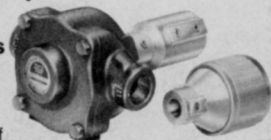
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You get reliable pressure at the nozzle with Hypro sprayer pumps and accessories. That means time savings and application precision that can help you make more money. And Hypro dependability will keep your sprayer on the job, season after season. Get the facts. See your Hypro distributor or write us today.

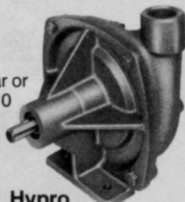
Hypro Series 6500 Roller Pumps.

PTO or engine drive. Choice of rollers, seals and housings. Strong 6-roller performance, low maintenance. Outputs to 22 gpm. Pressures to 300 psi. Speeds to 1200 rpm.



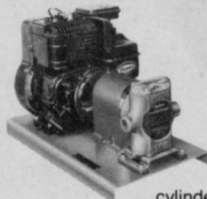
Hypro High Speed Centrifugal Pumps.

Belt drive. Models also available for hydraulic, gear or engine drive. Outputs to 210 gpm. Pressures to 170 psi. Speeds to 6000 rpm.



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Two sizes: 6 gpm or 10 gpm, both with 400 psi power. Two cylinder. Electric motor, gas engine or PTO drive. Speeds to 800 rpm. Other Hypro piston pumps with outputs to 26 gpm.



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Circle No. 118 on Reader Inquiry Card

60 WEEDS TREES & TURF/MAY 1982

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tive material. The planter has 36 large wheels that insert the sprigs to the desired depth in 2-6 in. row spacings. The planter also has heavy duty spindles and bearings for high speed and highway towing.

Circle No. 151 on Reader Inquiry Card

Racal Airstream is manufacturing a new supplied-air system that provides head, eye, face and respiratory protection. The AH38 has an air temperature valve to cool the breathing air. The



valve clips onto the wearers' belt for easy accessibility. The new valve increases the Airstream range of supplied air system module and accessory combinations.

Circle No. 152 on Reader Inquiry Card

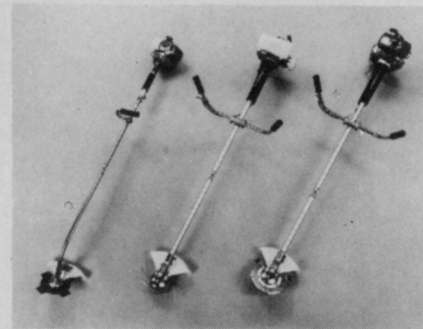
F.D. Kees presents a compact version of the Kees Powerrake, the Powerrake II. Designed with a fold down handle for transport, it is rugged enough has a 3-hp Briggs and Stratton engine. The non-tracking feature of the rake provides a complete action over the 14.5-in. raking



swath. The Powerrake II also has a 14.5-in. wheel base, 6-in. wheels, 3/4-in. length raking fingers and a net weight of 80 lbs.

Circle No. 153 on Reader Inquiry Card

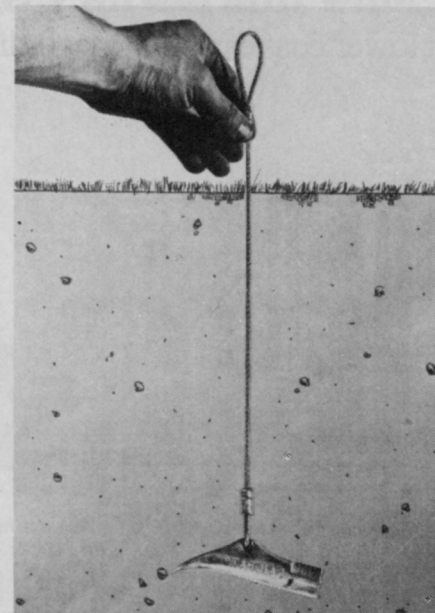
Vandermolen now has the Windmill line of gasoline powered trimmers and brush cutters available. Both the 32 and 35 cc models are run by Kawasaki engines with shaft housings that rotate



independently of the engines. Two types of nylon cutting heads, three types of metal heads and saw blades are available for the Windmill trimmers.

Circle No. 154 on Reader Inquiry Card

Foresight Industries introduces the Duckbill Earth Anchor in three sizes. The anchor holds 10,000 times its own weight and requires no stems or rods. Useful for securing trees and equip-



ment, the anchor can be installed by driving it into the ground with a hammer and drive rod. Made of aluminum alloy, the Duckbill meets all government and insurance specifications.

Circle No. 155 on Reader Inquiry Card

Continues on page 62