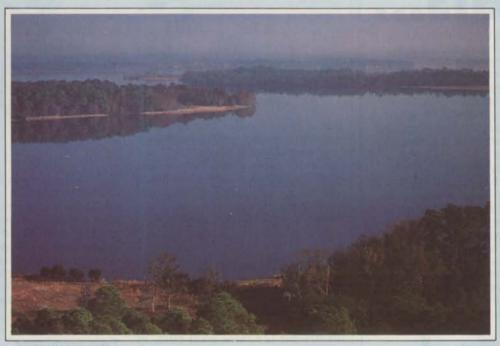
Responsible aquatic weed management



Lake Rousseau, Florida: For over ten years, water resource managers at Lake Rousseau have relied on Pennnwalt aquatic herbicides, confident that they will obtain effective control of submersed aquatic weeds without harm to the aquatic environment.

Since 1960, those responsible for aquatic weed management have relied on Pennwalt aquatic herbicides and algicides. All of Pennwalt's aquatic herbicides are based on endothall, and offer these important advantages:

- Rapidly biodegrade into natural products
- No bioaccumulation in the food chain
- Will not bind or leave residues in the hydrosoil
- No significant movement from the treatment site
- Highly effective against algae and most problem submersed aquatic weeds, such as Hydrilla, Milfoil and Pondweeds

Pennwalt's endothall formulations have a long history of being effective tools in weed management without causing adverse effects on man, other mammals, fish, shellfish or fish food organisms.

To manage your aquatic resources responsibly, you can rely on Pennwalt aquatic herbicides. Contact Pennwalt Corporation, Three Parkway, Philadelphia, PA 19102, (215) 587-7219, for more information.

Pennwalt aquatic herbicides are available in four formulations:

AQUATHOL K
AQUATHOL
HYDROTHOL 191
HYDROTHOL 191

AGCHEM

PENWALT

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HEALTH PRODUCTS

.. with Atrinal, the spray that keeps your shrubs the way you trimmed them.

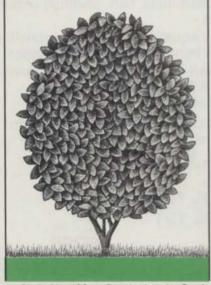
Just trim once in the spring. Then spray once with Atrinal. (Where the growing season is longer, you may want to spray again in early fall.) Now hang up your pruning shears for the rest of the year.

Atrinal systemic growth regulator inhibits apical bud growth, promoting lateral branching for lusher, fuller plants that keep their shape. Atrinal can also be used to suppress flowering and fruit set of ornamental olives and certain other species. And application is safe and easy.

For more information, write for the Atrinal Landscape Maintenance brochure.

Maag Agrochemicals, Inc. P.O. Box 6430 Kings Highway Vero Beach, FL 32961-6430 305-567-7506

Atrinal can also be used for nursery and greenhouse crops.

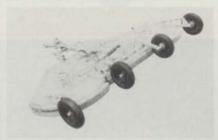


Circle No. 132 on Reader Inquiry Card 72 WEEDS TREES & TURF/MAY 1984

PRODUCTS

Flexwing 215 Cutter handles large tasks

Roadside maintenance, large tracts and stalk shredding are all easily handled with the FMC Corp.'s Flexwing 215, a 15-foot cutter with hydraulic lifts to raise wings for compact trans-



port. Triple spindles on this model provide maximum cutting width with minimum skipping or streaking, and the automatic parallel lift makes hook-ups quick and easy while maintaining proper levels through all height adjustments.

Circle No. 201 on Reader Inquiry Card

Harrow lift provides easy transportation

Fuerst Brothers Inc. has introduced a new harrow lift to easy transporting of the F-l-e-x-i-b-l-e Tine Harrow. The lift attaches to a three-point hitch. In the raised position, it will suspend the

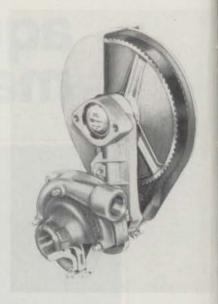


entire harrow from the rear. When the harrow is operating, the lift stays clear. It fits all Fuerst Hercules and Peerless eight, ten, and twelve-foot models.

Circle No. 202 on Reader Inquiry Card

Centrifugal pump has positive drive belt

The Hypro Series 9400 belt-drive centrifugal pump from Hypro Div., Lear Siegler Inc. features a positive drive method of power transmission for noslip uniform output. Adjustment is simple and belts can be replaced without disturbing the PTO attachment.



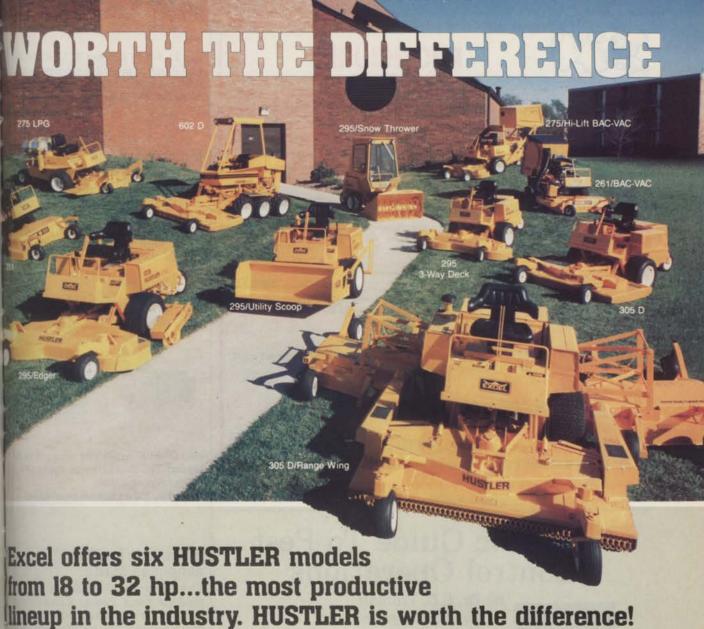
The cast-iron pump is epoxy-coated to resist corrosion, and the drive mechanism is protected by a polyethelene shield. Pumps may be PTO mounted or PTO shaft-driven, and deliver either 65 or 80 gpm at 40 psi. The many corrosion-resistant features make this model especially suitable for use with certain herbicides.

Circle No. 203 on Reader Inquiry Card

Two fertilizers control turf insects

Lebanon Chemical Co. has formulated two products to fertilize and provide insect control on various turf areas. Oftanol 1.5 Granular controls both surface and subsurface insects, including grubs. It is granulated for stability in hot-weather applications. has a low solubility, and resists leaching when distributed into the soil. Oftanol is EPA approved, and has little effect on earthworm populations.





Because real value is the basis upon which a buying decision is made, Excel would not compromise its design of the HUSTLER.

Pioneered by Excel Industries, HUSTLER dual hydrostatics and drive-wheel steering have proven to be the best drive system concept in the industry for maneuverability, traction and serviceability.

Independently driven drive-wheels counter-rotate permitting a HUSTLER to actually turn within its own radius! Now that's maneuverability you can't find on conventional steering wheel models. And, with that kind of maneuverability, you can easily mow around obsta-

cles, make square corner turns or speed down straightaways and never miss a blade of grass.

Plus, you can choose from a multitude of attachments to meet year-round needs...from fine-cut mower decks, grass vacuuming systems and edgers, to grass thatching and snow removal attachments!

Yes, whether you select the 18 hp model 261, the 23 hp model 275, 21.5 hp model 275 LPG, 25 hp model 295, the 32 hp model 305 D or the 32 hp model 602 D... HUSTLER productivity is the key to your grounds maintenance...and value is your benefit! That's what makes HUSTLER worth the difference!



Call Toll Free,

1-800-835-3260

or write for free literature: EXCEL INDUSTRIES, INC. P.O. Box 7000, Hesston, Kansas 67062

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3 Point Mount

B SERIES ROCKHOUND





Open bottom-PTO Drive. Rocks are raked to a convenient windrow for later pickup.

COST EFFECTIVE ROCKHOUNDS Rake and collect rocks and surface debris,

leaving the soil in a fluffy, level, seed-bed quality condition.

It does not cost to own a Rockhound ... IT PAYS!

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1-800-426-5615

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Circle No. 126 on Reader Inquiry Card

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

Domestic: \$32.50* (hardcover) Foreign \$37.50* (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

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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

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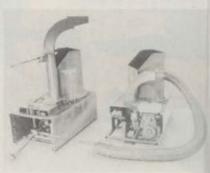
weeks for delivery

continued on page 77

Pro 32-3-8 25 percent SCU + Oftanol 1.5 Granular provides similar control. with the added benefit of fertilization. Circle No. 204 on Reader Inquiry Card

Mulching made simple with Bale Chopper

The Bale Chopper, from Goossen Industries, shreds and blows mulch, straw, paper, leaves, and grass with ease. Mulch or compost can be applied either with a 180-degree directional blower or with a 20-ft., six-inch-diam-



eter flexible hose. The chopper is designed for quick, even coverage of large rows or areas.

Circle No. 205 on Reader Inquiry Card

Electronic ignition simplifies starts

The Power-Start electronic ignition module from Power Lawnmower Parts Inc. is said to eliminate the need for troublesome points and condensers on most two and four cycle engines for outdoor power equipment. Modules are designed for long



The Professional Lawn Care Association of America 1984 Conference & Trade Show November 12-15, Tampa, Florida



PLCAA'84 Tampa

MORE IN 84! Mark your calendar. It's not too early to start planning for the lawn care mustry's biggest week of the year — the Professional Lawn Care Association of America's MAY Show and Conference.

And what a week it will be! PLCAA '84 is shaping up to be the biggest, best gathering of coverhouse speakers and exhibitors in our five-year history. The seminar program has been expanded to offer over 16 hours of educational programming hosted by a new lineup of wastanding speakers, problem solvers all.

In addition, last year's popular "Workshop" series will offer even more hours of "how to" whice on business basics like purchasing, business expansion, and promotional techniques. Series aimed at boosting the bottom line of your operation.

IT'S SHOWTIME, FOLKS! Virtually every major vendor and supplier to the lawn care dustry will be among the over 100 exhibitors at PLCAA '84. Longer show hours and more have space in the beautiful Curtis Hickson Convention Center will give showgoers an amparalleled opportunity to see, touch, and compare all that's new in lawn care.

BRING THE FAMILY! Take advantage of Tampa, heart of Florida's funland. PLCAA '84 flas features, options, and vacation opportunities designed with fun in mind. Features like a poial Spouse Program full of fun and surprises. Options like a week-long post-conference aribean cruise on the luxurious New Amsterdam, newest ship in the Holland America Line. Inportunities like a chance to visit those Florida wonderlands you've been dreaming about—

Disney World, Epcot Center, and Sea World. Indicate your otherest on the coupon below and details will be sent to you.

'84 is the year. Tampa is the place. Go for it!







Delta Airlines have been appointed official carrier for PLCAA '84. Delta has regular scheduled flights from most major US cities to Tampa and will be offering discounted fares to all PLCAA '84 participants — up to 30% off regular prices.

The airline run by professionals

YES! I'm interested in attending PLCAA's 5th Annual Conference and Trade Show. Send me more information on:

□ REGISTRATION □ EXHIBITING □ MEMBERSHIP □ POST CONFERENCE CRUISE

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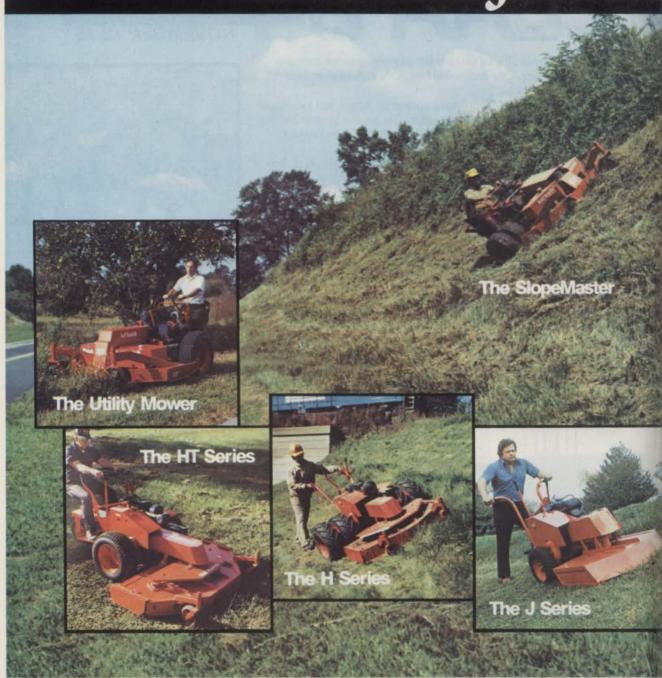
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POWER START from page 74

life, quick starting, and easy installation and maintenance.

Circle No. 206 on Reader Inquiry Card

End soil compaction with Verti-Drain

Redexim B.V. of the Netherlands has introduced the Verti-Drain, which leatures 20 times that press into the ground to a maximum depth of over 15 inches. This system is said to allow adequate absorption of air, water, and lertilizer into the soil, thus eliminating the problem of soil compaction. Verti-Drain can be mounted on the lear of a 65-hp tractor with broad tires and high elevating power.



The tines work in pairs to penetrate the soil at an adjustable angle. When they are withdrawn, a jerking motion breaks up compacted soil and rows of holes are made, which can be varied in widths. Three models range in width from 59 in. through 98-1/2 in. Circle No. 207 on Reader Inquiry Card

Diaphragm pumps make

Smithco unit versatile

Smithco sprayers are equipped with Hypro diaphragm pumps that enable them to handle abrasive, granular ma-



terials, wettable powders, and corrosive chemicals without damage. Both sprayers in the line are built for low-cost operation and long wear.

The Lark Special delivers up to 9.5 gal/minute, with pressures up to 550 psi. The Hawk Special delivers up to 14.6 gal/minute, with pressures also to 550 psi. Any material sprayed in either pump has no contact with the critical moving parts, and any liquid-handling parts are epoxy coated for long wear. Pumps also run on lower

horsepower while still meeting pressure spray requirements in normal use.

Circle No. 208 on Reader Inquiry Card

Chipper has power with less noise

Model 984 tree and brush chipper from 0lathe Manufacturing Inc. has a 42-in.-diameter chipping drum that can turn at 750 rpm. This design alcontinued on page 82



They do. It's their job to know things <u>first</u> and then pass that information on to you <u>fast</u>. Things like new turf management techniques, effective methods of insect and weed control, what really works... and what won't.

LOOK FAMILIAR?

They should. You've seen them often at turf shows, seminars, conventions, wherever industry news is in the making. They're the editorial and sales management team of **WEEDS TREES & TURF.** Please meet (seated I. to r.) Ron Kempner, Bruce Shank, Dick Gore, and Maureen Hrehocik; (back row I. to r.) Bob Mierow, Kevin Cooney, Joe Kosempa, and Bob Earley.

THERE'S NO GRASS GROWING UNDER THEIR FEET.

They apologize for not always being in when you call, but great stories are found in the field, not in the office. These pros know the only way to really cover the green industry is to get out and be a part of it. From turf test plots in Oregon to the corridors of our Nation's Capital, they're following leads, surveying markets and interviewing the

landscape professionals who make our industry hum. Then, they use their years of experience to pull it all together, analyze it and present it to you in a crisp, easy-to-read and easy-to-use style. That way, you have the information you need to do your job better, faster and more effectively.

The next time you want to know something in the green industry, give them a call. If you can't reach them at the office, don't worry. They'll reach you in the pages of WEEDS TREES & TURE.

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VORLAN™ is Mallinckrodt's newest, toughest turf fungicide.

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Vorlan's effectiveness — because it takes so little and lasts so long — also makes it economical, too.

If you haven't yet tried Vorlan, you should. Call Mallinckrodt toll-free, or contact your Mallinckrodt Turf Products distributor. No prescription is needed!



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WEDSTRESEUR

MAY 1984

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B. CONTRACTORS/SERVICE COMPANIES/CONSULTANTS:

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Other type of facility (please specify)

110	□Lawn care service companies	
125	□Landscape architects	
135	□Extension agents/consultants for horticulture	
	□Other contractor or service	
	(please specify)	

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Approximately how many acres of vegetation do you maintain or manage?

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