

Plaza, P.O. Box 3833—999 Summer St., Stamford, CT 06905, 203/964-0000.

**Twenty-Seventh Annual Southwest Park and Recreation Training Institute**, Lake Texoma Lodge, Kingston, OK, **Jan. 31-Feb. 3**. Contact James W. Kitchen, Institute Director, Department of Park Administration and Landscape Architecture, Texas Tech University, P.O. Box 4169, Lubbock, TX 79409, 806/742-2858.

**Park and Recreation Maintenance-Management School**, Wilson Lodge/Oglebay Park, Wheeling, WV, **Jan. 31-Feb. 4**. Contact Alice Strickland, North Carolina State University, Division of Continuing Education, P.O. Box 5125, Raleigh, NC 27650, 919/737-2261.

**GCSAA International Turfgrass Conference and Show**, New Orleans, LA, **Jan. 31-Feb. 5**. Contact Golf Course Superintendents Association of America, 1617 St. Andrews Drive, Lawrence, KS 66044, 913/841-2240.

**Weed Science Society of America**, Annual Convention, Boston Park Plaza Hotel, Boston, MA, **Feb. 7-11**. Contact WSSA 309 West Clark Street, Champaign, IL 61820.

**National Arborist Association** 1982 Annual Meeting, Maui Surf Hotel, Maui, Hawaii, **Feb. 14-18**. Contact National Arborist Association, Inc., 3537 Stratford Road, Wantagh, NY 11793, 516/221-3082.



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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%.

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**LANDSCAPE**

**IBDU fertilizer used to revegetate Mt. St. Helens**

In an attempt to revegetate Mt. St. Helens, the Washington State Soil Conservation Service has begun applying non-bacteria dependent fertilizer.

The fertilizer, IBDU, is a slow-release nitrogen fertilizer that does not

depend on soil bacteria to work. Efforts to revegetate the area with conventional fertilizers have been unsuccessful. According to SCS sources, there apparently is not sufficient bacteria in the volcanic debris to activate conventional fertilizers.

IBDU was applied along the banks of the Toutle and Cowlitz rivers which were ravaged by lava and mudflows. Approximately 70 tons of IBDU was used to treat 1000 acres.

For the past 16 months the SCS has been involved with revegetation attempts to control erosion on the 200,000 acres in the erosion zone caused by the blast. The SCS estimates 380 tons of soil per acre per year will be lost to erosion on the land compared to the national average of 4.2 tons of soil erosion on disturbed forest land.

The SCS expects IBDU to remain in the soil for six months after the initial application, which should allow the vegetation to develop sufficient root systems to control erosion. IBDU is marketed by PAR EX Professional Products division of Estech.

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Arbor Lodge 100, Nebraska City, NE 68410

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The first edition of the Elanco Vegetation Management Guide got rave reviews. Vegetation managers across the country liked the information on new vegetation management practices. They liked the news on new product developments. They liked the "how-to" application and treatment information.

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To get your copy, just fill out the information below, then tear out the page and send it to:

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Responsibilities: \_\_\_\_\_ acres and/or \_\_\_\_\_ miles right-of-way

ES 2674

8/81

## PRODUCTS

**Vandermolen Corp.** has introduced its new WINDMILL 8-11 Wheeled Blower, powered by a 2 cycle Kawasaki



engine with electronic ignition. The 41 lb. blower generates a high pressure air blast of 225 mph. Its lightweight and pneumatic rubber tires are designed for easy maneuverability on steep slopes and uneven surfaces.

Circle No. 160 on Reader Inquiry Card

**Glenmac Inc.'s** Harley Stone Removal equipment is designed for optimum results when fine cleaning trash and rocks for seed bed preparation on new golf courses. According to the manufacturer, the equipment will sanitize down to 1/2-in. and can clear from 5-15 acres per day. Glenmac offers the rock picker for sale or will contract for site preparation.

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**"Little Squirt" by Aquatrols Corp.** is a new irrigation unit which allows for the injection of liquid concentrates directly into the irrigation system. The unit has the capacity for a wide range of application rates from less than one-ppm to 46-ppm at a standard irrigation flow rate of 600 gpm.

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**Trevennor Inc's AER-CORE** aerifying fork has been designed to solve soil compaction problems and promote drainage without the need for expensive and bulky equipment. The AER-



CORE features three 6-in. x 1/2-in. tines which automatically eject aerification cores and minimize clogging.

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**Commercial Sprayers for Farm and Industry**

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MODEL 3187



**Polyethylene Tank Sprayers for Commercial Applications**

This single cylinder, medium pressure sprayer features a trailer hitch for attachment to garden tractors. It also comes with orchard gun which adjusts from steady stream to fine mist. The sturdy polyethylene tank is noncorrosive and lightweight.



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**Club Car's 1982 DS Model** golf cart features reduced weight, a tighter turning radius, a more streamlined bag



rack, and shock absorbers on all four wheels. The improvements are designed to lower operating costs, improve suspension and increase maneuverability.

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**The Andersons Lawn Fertilizer** division has unveiled a concentrated benefin product for the control of crabgrass. Pel-Tech Benefin Concentrate 10 is a sprayable, pelletized formulation utilizing a pre-emergence

*Continues on page 77*

# Vermeer Quality

## Finding a home for a giant 10-year old, 12,000 lb. tree.

It takes a very special machine. Powerful. Mobile. Reliable. But, most of all, gentle. The Vermeer TS-84 is all that and more. It transplants big trees in minutes. Trees with trunk diameters up to 8 inches! Six, powerful, high-tensile steel spades do it all. Hydraulically. Easily. Instant shade. You'd expect that. After all, Vermeer invented the tree spade! Ask your Vermeer dealer for a demonstration.

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**TS-24.** Compact. Economical. Tractor-mounted. Or, slips onto the forks of most conventional skid steer loaders. Transplants or packages small trees up to 2'.



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# MILORGANITE



## Take another look at fertilizing nature's way with MILORGANITE

If you haven't done so recently, take another look at fertilizing nature's way with Milwaukee's Organic Nitrogen — MILORGANITE. It has been used successfully since 1926. That's a 55 year history of superior performance. MILORGANITE's nitrogen release follows soil bacterial activity. In the North, release is slow to non-existent in cold weather or under water-logged conditions. It peaks with the moderate temperatures of early summer, slows with excessive summer heat, and rejuvenates growth with moderating temperatures of fall. In the tropics release is assured anytime of the year that moisture is adequate to support growth.

Maybe you're having second thoughts about the agronomic value of synthetic UF, IBDU, SCU nitrogen release — *and cost*. If so, you are not alone. No matter how hard the scientists have tried, they have failed to match synthetic nitrogen release with natural growth patterns.

### SOME OF THE PROBLEMS

Take IBDU as an example. Its water solubility increases by  $\frac{1}{3}$  from 40 degrees to 80 degrees Fahrenheit. This might not be too bad for warm-season grasses, although it does mean the long lasting qualities are reduced. However, it could be disastrous to cool season turfs where reduced, rather than increased, nitrogen availability is wanted during hot weather.

Sulfur coated urea (SCU) has the same problem. As temperatures increase, water becomes a better solubilizing agent, thus promoting faster — sometimes much too fast — release.

Ureaformaldehyde (UF), on the other hand, calls for a sizeable investment in product, time and

wonderment (up to two years) while waiting for nitrogen supply from the more slowly available UF to stabilize to adequate growth rates. The more soluble methylene diurea doesn't last as long and has a greater tendency to burn.

### THE COST FACTOR

Cost is yet another factor with the synthetic nitrogens. They have gotten so high that they are seldom sold in pure form. They are instead included in mixtures with fast acting urea (the inferior source in most comparison charts) and often potassium and phosphorus, as well. This lowers the analysis but increases the "burn" potential.

Interestingly, the comparison charts and graphs point out the superior nitrogen release and low salt index of IBDU and UF when compared to urea, yet the sales push is for the 24-4-12 or similar mix. In a 24-4-12 example given by the IBDU folks, 55% of the nitrogen is water soluble, whereas only 15% of IBDU Fine falls in this category. And, granulation does make a difference. Coarse IBDU has 1.6% less water soluble nitrogen than the Fine. And the fines react much faster.

*Milorganite is more than just a simple source of nitrogen.*

Just maybe it isn't only the s-l-o-w nitrogen release that does the job. MILORGANITE makes available every element known to be needed by grass in the same controlled release way. MILORGANITE includes some potentially fungicidal properties as well. Could it be MILORGANITE's cadmium content? Just maybe it's because MILORGANITE supplies nutrients the way plants want them.

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT

735 N. WATER ST., MILWAUKEE, WI 53202

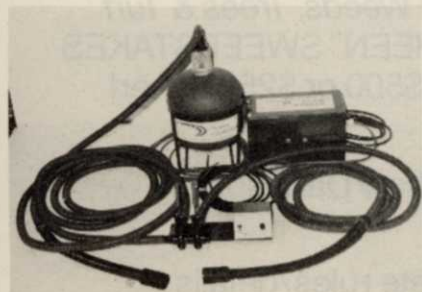
herbicide, designed for easy mixing and application. The 35% nitrogen



urea carrier contained in Pel-Tech adds fertilizing properties to the product.

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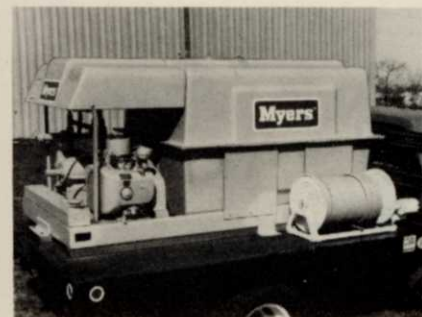
**Richway Industries Ltd.** has introduced its TF-4 Foam Marking System. Designed for reduced maintenance



over their previous model, the new system was developed to ensure a simple and efficient method of operation.

Circle No. 166 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 developed to help cradle and protect the tank. Models available include 7- and 23-hp gasoline engines.

Circle No. 167 on Reader Inquiry Card



**Roseman Mower Corp.** has introduced a seven-gang, pull-type, hydraulic drive reel mower with a 15½-foot swath cutting capacity. Utilizing a

tractor power-take-off system to charge the cutting reels, the model includes finger tip controls from the tractor seat to engage and disengage the reels.

Circle No. 168 on Reader Inquiry Card

## **mott** Flail Mowers **HAMMER KNIFE** can cut your **TURF CARE COSTS**

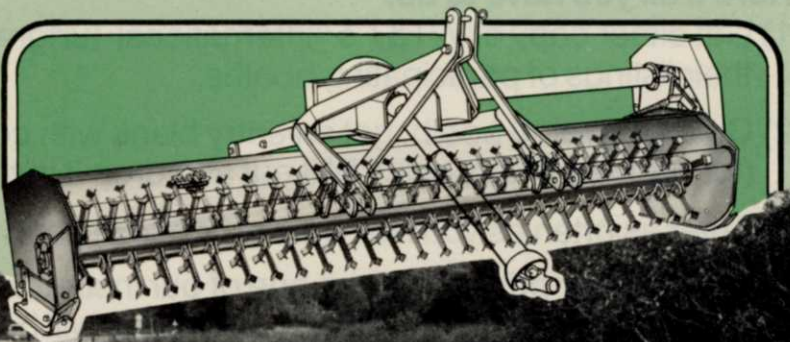
**Mott Flail Mowers** reflect extra value through greater versatility, added production with longer trouble-free life, and safer operation.

No other mowing system is as versatile as the flail. With only one mower investment, you can trim fine lawns, shred tough weeds, mulch, renovate, dethatch and scalp. You can work any area that is smooth or rough, clean or trashy, level or steeply banked, dry or "liquid wet". And you can operate with much greater safety than with rotary mowers.

**Mott Flail Mowers** are built to last and can be used with most tractors. Models are available in widths from 38 to 88 inches. In combination, they will handle up to 19 foot swaths.

Contact us today and discover how the extra value of Mott Flails can pay off by cutting your turf care costs.

**MOW LAWNS ■ RENOVATE ■ MULCH LEAVES ■ SHRED WEEDS**

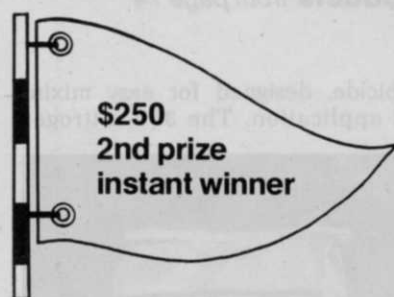
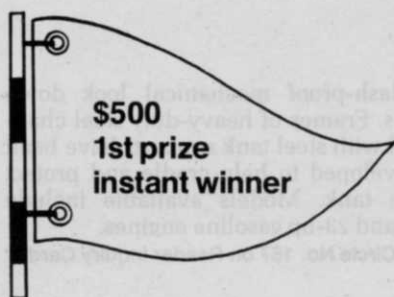
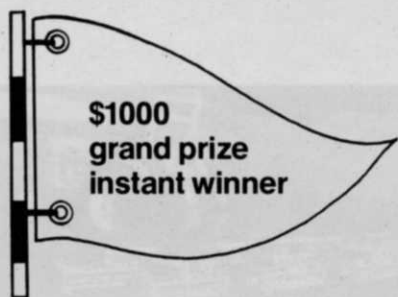


*Mott Interstater Cuts 19' Swath.*



**MOTT CORPORATION** 514 Shawmut Avenue  
P.O. Box 518, LaGrange, IL 60525 (312) 354-7220

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# **YOU CAN WIN \$1000 IN CASH IN Weeds, Trees & Turf's WIN SOME "LONG GREEN" SWEEPSTAKES at the GCSAA Golf Show**

You can *really* clean up at the Golf Show this year when *Weeds, Trees & Turf* awards \$1750 in cash! Enter our WIN SOME "LONG GREEN" SWEEPSTAKES at any participating booth... you might go home \$1000, \$500 or \$250 richer!

## **Here's all you have to do:**

- 1) Get either copy of WT&T's "International Turfgrass Show Dailies" with their listings of participating booths.
- 2) Go to any listed booth, get an entry blank with complete rules/details (for non-exhibitors only), fill it out and drop it in the ballot box.
- 3) Enter as often as you like, but only once at each booth.
- 4) Pick up your prize—if you're one of our instant winners—and have your picture taken at the winning booth. Prizes will be mailed if winners are not present.

That's it—for the fastest "green" you might ever see!  
See you at the show...and good luck.

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