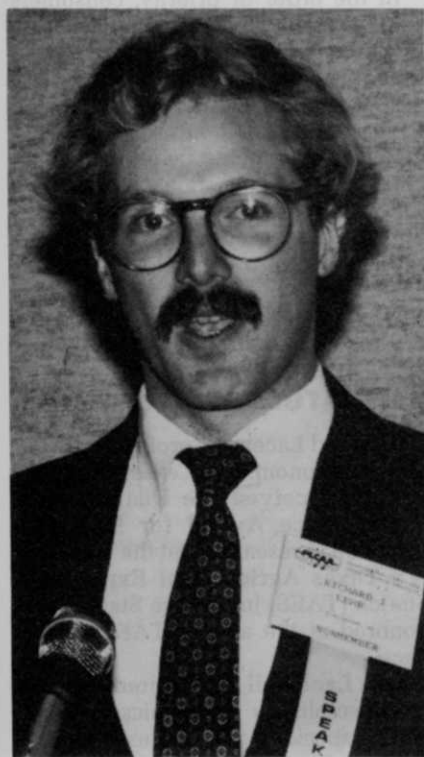


cap-M to be used at the rate of 2 pints per 100 gallons of water as a full coverage spray on foliage. Penncap-M is an insecticide which features a controlled release of methyl parathion, according to Pennwalt.

LAWN CARE

PLCAA names Lehr Honorary Member

Labor lawyer Richard Lehr has been conferred an Honorary Membership by the Professional Lawn Care Association of America. Lehr received his membership at the PLCAA convention, where he was a guest speaker. Lehr's presentation was on "Lawn Care Employer Hot Spots: Wrongful Discharge and Proper Compensation of Employees."



Richard Lehr

As a labor lawyer, Lehr has presented a number of employer seminars throughout the Sunbelt concerning union prevention techniques, equal employment requirements and wage/hour issues, and has authored articles on labor matters both nationally and internationally. He is the author of the monthly column "Lehr on Labor Law" published in *Lawn Care Industry* and has counseled numerous employers with regard to labor, wage and hour matters. Lehr will also serve as a contributing editor of PLCAA's newsletter, *Turf Talks*.

Lehr is a management labor lawyer

with Sirote, Permutt, Friend, Friedman, Held and Apolinsky, in Birmingham, AL.

ChemLawn names Luke executive vp and COO

In a move to strengthen its management capability, ChemLawn Corp., Columbus, OH, has appointed Don Luke to the newly created position of executive vice president and chief operating officer. A former vice president with

Parker Pen Co., R.J. Reynolds and Quaker Oats, Luke will oversee all operations and new business development. The company has also named William Kaufmann vice president of human resources.

ChemLawn recently financed the acquisition of a 40-acre site and construction of a \$6 million corporate center. Approximately 250 employees will be located at the new headquarters, set for completion in June 1982.

Continues on page 92



MILORGANITE

A DISTINCTIVE PRODUCT... Milorganite is a NATURAL ALL-ORGANIC fertilizer. It is easy to apply, without danger of burning, and watering-in is never necessary. Milorganite never deteriorates or hardens during storage. Milorganite contains natural organic nitrogen, phosphorus, iron and all secondary and minor elements needed by grass. All are released gradually and surely to insure uniform color and growth.

THE IDEAL PARK, CEMETERY AND HOME LAWN FOOD... It is easy to have a luxuriant turf. Follow the method used by leading golf courses everywhere. Grass is a VORACIOUS FEEDER and ample, slowly-released plant food encourages existing grass to spread and produce dense turf. Instead of reseeding constantly, the best golf courses

**The natural organic fertilizer...
Use in any season...
Ideal for Lawns, Parks,
Cemeteries and Athletic Fields**

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— with MILORGANITE.

Milorganite cannot burn the turf since it is not salty and *Milorganized* turf requires less water than other fertilizers.

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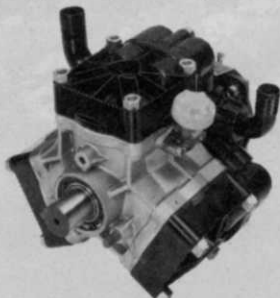


Circle No. 133 on Reader Inquiry Card

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Announcing a complete line of low cost, low maintenance diaphragm pumps and accessories. These new pumps feature proven designs, high quality engineering and the reliability you expect from Hypro.

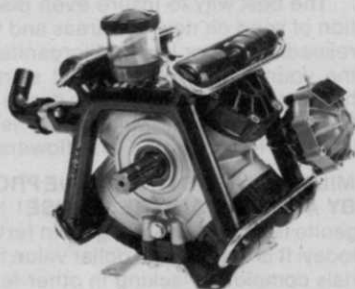
Outputs range from 5 to 60 gpm. Pressures from 250 to 850 psi. Pumps are extremely durable and easy to repair. Diaphragm pump applications range from spraying to pressure washing to liquid transfer to hydrostatic testing. And a full range of accessories plus nationwide Hypro service is available. Get the facts on new diaphragm pumps from Hypro today.




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Circle No. 126 on Reader Inquiry Card

NEWS

EXTENSION

Maryland to charge for soil testing

The Maryland Cooperative Extension Service has announced that it will start charging for its laboratory analyses of soil samples. Effective February 15 the cost will be \$4 per sample.

Dr. V. Allan Bandel, extension soils specialist in charge of the soil testing program, says that charging for soil sample testing will permit hiring additional laboratory help. A larger staff will provide more efficient service in the face of a workload which has more than doubled since 1964. Unfortunately, budget allocations have not kept pace with the increased workload, Bandel commented.

Traditionally, the university's free soil testing service for Maryland residents involved analyses for soil texture, pH, phosphorus, potassium and magnesium. Nominal charges were made for certain special tests; e.g., analyses for boron, manganese, zinc, soluble salts and organic matter content.

Written recommendations for fertilizer and lime application, based on soil test results, will continue to be provided by county extension workers. This customized service is based in part on cropping history and future plans contained on the information sheet which is submitted with each soil sample.

TURFGRASS

Ham Williams, educator, dies

Dr. H. Hamilton Williams, renowned turfgrass educator and scientist, died recently in Los Angeles. He was 70 years old.

Williams was best known for his work as a biologist in turfgrass research and education at the Los Angeles State and County Arboretum, Arcadia, CA. He received a respected reputation for his research at the Arboretum and taught classes in turfgrass management.

Williams was the first black man to be awarded a Ph.D. in ornamental horticulture at Cornell University. He was then appointed chairman of botany and horticulture at A and T College in Greensboro, NC. After serving in various educational positions, Williams joined the United States Planning Office as a consultant for a landscape design project in Liberia, Africa. After completing the project he joined the Los Angeles Housing Authority and then the Arboretum.

As a member and officer, Williams was very active in the Southern California Turfgrass Council, Athletic and Recreational Turfgrass Association and International Turfgrass Society.

RESEARCH

Nursery customers desire information

Research conducted by the Nursery Marketing Council reveals that customers who spend the most time on their landscape want information. Price is important to them, but more often than not they will shop at a retail nursery where they believe they can receive good advice from competent people.

In the order of priority, consumers say they want to know about soil conditions, growing needs (sun, water, shade), types of plants for the area, pest/weed control, and when to plant. At least one person informed on technical subjects should be on hand at all times to answer questions, the research concluded. Information racks and a public address system for questions and answers also will help.

Lacewell receives TAES research award

Dr. Ronald Lacewell, professor of agricultural economics at Texas A&M University, received the Distinguished Performance Award for Research. Lacewell, a researcher at the University's Texas Agricultural Experiment Station (TAES) in College Station, was honored at the annual TAES conference.

Dr. Lacewell was cited for his interdisciplinary economics research work, especially as it relates to agricultural engineering and entomology. He has played a major role in researching economic problems relating to the development and use of the state's natural resources, particularly such pressing issues as water development and use, land conservation and management, environmental protection and pest control, and energy. His practical approach to economics has provided the basis for many policy and producer decisions on the adoption of new technology and expected benefits. **WTT**

**COMING NEXT
MONTH:
COTONEASTER**

The Kohler Co. has released a four-page full-color folder giving specifications for all 13 Kohler manufacturing



air-cooled engines. The product line includes single-cylinder and twin-cylinder engines ranging from four to 23 hp, and from 43 to 187 lbs.

Circle No. 184 on Reader Inquiry Card

Ditch Witch has introduced its Model 1410 handlebar trencher with a 12- to 14-hp-class engine. The 35½-in. wide machine can dig trenches up to five feet. Features include a hydraulically



raised and lowered digging boom, a 140 degree digging boom travel angle, and single-range hydrostatic ground drive.

Circle No. 185 on Reader Inquiry Card

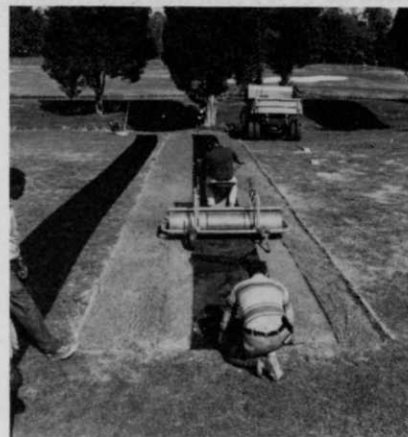
Advanced Drainage Systems, Inc. has developed two forms of synthetic wrapping to be used with ADS corrugated plastic tubing of up to 15 inches in diameter. The non-biodegradable drain envelopes provide a screen to stabilize soil and keep water flowing. Drain Guard can be used as a screen for normal installations, and the Sock is available for more rough-and-tumble jobs.

Circle No. 186 on Reader Inquiry Card

Turfcart by Cushman is a new heavy duty personnel and tool transport that can attain speeds of up to 14 mph. With

the passenger seat tilted up to form a backrest, the vehicle becomes a rugged carry-all for tools. Turfcart is equipped with lights for night use and is designed for a payload of up to 250 lbs.

Circle No. 187 on Reader Inquiry Card

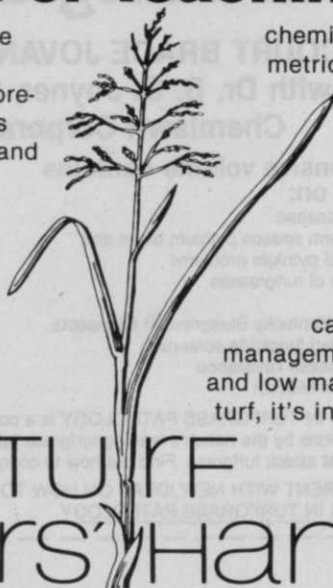


Proxel 80 SP insecticide from Tuco is designed for the control of white grubs and surface feeders in fine turf areas. It can be used with standard spray equipment and combined with other non-alkaline chemicals to save time. Appli-

Continues on page 94

Finally, An Aid For Teaching Turfgrass

Superintendents, Contractors, Lawn Care Managers, New, On-the-Job Reference. The Turf Managers' Handbook is a comprehensive, organized approach to turfgrass science and care. It has been designed and written by leading turf specialists from Purdue, Dr. William Daniel and Dr. Ray Freeborg, for on-the-job reference and as a text for students. The book contains 150 illustrations and 96 color photographs. Data includes 240 tables and forms. Included are specifications for rootzones, employment, calculations for



chemical applications, and extensive metric-imperial conversion. Business and technical aspects of turfgrass management are covered in this 424-page book. Planning, purchasing, hiring, construction, and plant selection are put together for easy on-the-job reference. Markets covered include lawn care, sod production, golf course management, cemeteries, athletic fields, and low maintenance areas. If it concerns turf, it's in the Turf Managers' Handbook.

TURF managers' HANDBOOK

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WTT 32

cation should be at the rate of 10 lbs. per acre and should be followed by thorough irrigation of the treated turf. Circle No. 188 on Reader Inquiry Card

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. 189 on Reader Inquiry Card

Warren's Turf Nursery, Inc., has introduced its model T-7 Multi-Purpose Spreader designed for fast and accurate dispersal of seeds and chemicals. The compact, lightweight T-7 can be



adjusted for a spreading range of up to 20 feet. As the crank is being rotated, a constant, even flow is assured because of a continuously moving interior agitator.

Circle No. 190 on Reader Inquiry Card

Turf Seed, Inc. has introduced the new Manhattan II ryegrass developed by Dr. W.A. Meyer and the New Jersey Agriculture Experiment Station. The dark green grass was developed to have a fine leaf texture, high shoot density, reduced leaf extension rate, and good heat and cold tolerance.

Mallinckrodt, Inc.'s Dycarb is intended as a broad spectrum insecticide with both contact and stomach poison effects on insect targets. Phytotoxicity testing located 58 herbaceous plants and 43 woody plants to which Dycarb may be applied safely. The active ingredient is Bendiocarb: (2,2-dimethyl-1,3-benzodioxol-4-ol-methyl-carbamate).

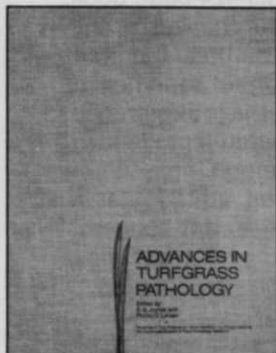
Circle No. 191 on Reader Inquiry Card

The Vermeer Manufacturing Co. has developed a 910-lb. tree spade mechanism engineered as a digging and packaging attachment for skid steer or front-end loaders with an auxiliary hydraulic hookup and a minimum capacity of 1,200 lbs. The Vermeer TS-24



Advances in Turfgrass Pathology

published by HARCOURT BRACE JOVANOVIICH PUBLICATIONS in cooperation with Dr. B. G. Joyner, Dr. P. O. Larsen and Chemlawn Corporation



This extensive volume contains chapters on:

- turfgrass diseases
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WTT 32

NEW PRODUCTS

Tree Spade is operated by a remote control system intended to eliminate cumbersome hose and valve attachments.

Circle No. 193 on Reader Inquiry Card

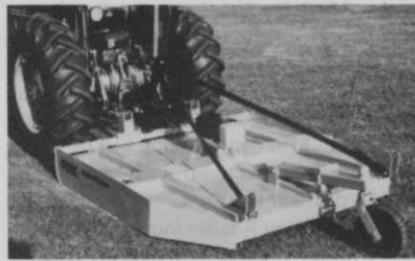
Echo, Inc. has added a new vacuum attachment to accommodate their models PB-9, PB-400 and DM-9 power blowers and duster misters. The PBAV-400 op-



erates on a venturi pump principle, with a lever creating suction air volume through the blower discharge pipe into the attachment's bag. Two or three bushel bags are available.

Circle No. 194 on Reader Inquiry Card

FMC Corp./Agricultural Machinery division has introduced its Side-Winder GB-700 heavy duty, single spindle rotary cutter. It features an 84-in. cutting swath, adjustable cutting height (from 2 to 10 inches) and will fit either a Category 11 or 111 standard or quick hitch. It can be purchased with hardware which includes a single ad-



justable, full swivel tail wheel and stabilizer arms for mounting to three-point hitch so that the unit has lift capability; or with hard ware which includes a dual tail wheel assembly, offset brackets for semi-mounting and a dual angle PTO assembly so the unit can be used in an offset mode.

Circle No. 195 on Reader Inquiry Card

Melex USA Inc.'s Turtle 212 is a four-wheel golf cart featuring self-adjusting rear wheel brakes with precision machined drums and a redesigned front



end. The vehicle also includes an automatic seat brake, sweater basket, mud guards and rear fender spike guards as standard equipment.

Circle No. 196 on Reader Inquiry Card

Two mulching mowers have been added to FMC Corp.'s 1982 Bolens line of lawn and garden equipment. Model 8622 features a 20-in. push mower including inset wheels for close trim-

Continues on page 96

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FIGHT BACK
WHEN IT'S ON
A HANNAY
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Are you still manhandling clumsy spray hose? Hauling, dragging...stopping to fight kinks and tangles? Get Hannay Reels and put spray hose in its place.

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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.

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Circle No. 120 on Reader Inquiry Card



ming, adjustable and folding handles and a 3½ hp engine. The self-propelled, model 8642 is a four hp, 22-in. steel deck machine.

Circle No. 197 on Reader Inquiry Card

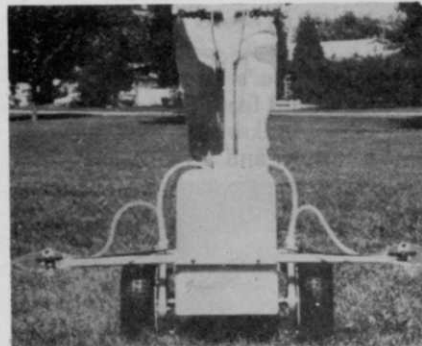
Alternative Energy Systems is manufacturing woodchip heating furnaces for small businesses with high heating costs, such as nurseries. The thermostat signals an automatic conveyor to feed woodchips from the storage bin to the firebox as required. High temperature burns off all creosote.

Circle No. 198 on Reader Inquiry Card

Drain-Chek by Brighton By-Products Co., is a groundwater drainage system available for use on slopes, basement areas and agriculture or general field use. The prefabricated system consists of a vertical fin drain protected by filter cloth, and can be used with or without standard drain tubing.

Circle No. 199 on Reader Inquiry Card

Wheel Spray Corp.'s Grounds Wheelie is used to apply liquid fertilizers, fungicides, herbicides, insecticides and growth regulators. The unit is powered by walking—no water hoses, cords, batteries or gasoline are required. The WS-480 is equipped with



two pumps, two nozzles, two foldup booms and shut-off controls located on the handle grips.

Circle No. 200 on Reader Inquiry Card

Aquatrols Corp.'s Aqua-Gro is designed for conservation by improving the spreading and wetting action of plain water. This blended, nonionic



agent works by penetrating the soil and moistening the rootzone profile. Aqua-Gro is available in spreadable or liquid concentrate form.

Circle No. 201 on Reader Inquiry Card

Ford Tractor dealers are set to introduce two new low-profile lawn tractors. The eight-horsepower model LT 81 and the 11-horsepower LT111 replace the current Ford LT 80 and LT 110. The new models are equipped with a dual-speed transmission, allowing six forward speeds and one reverse speed to



double the LT's current selection of forward ground speeds. The LT's cowl and rear fender are restyled and redesigned with rust-resisting plastics. The units also feature a flip-up hood for easy access to the engine compartment. A 34-in. mower deck is standard on the LT81. The LT 111 features an optional 42-in. deck.

Circle No. 202 on Reader Inquiry Card

Jacobsen Turf Products has introduced a hydraulically driven vertical reel mower that interchanges with hydraulic drive fairway gang units to re-



Lawn Genie pick-up mower



Saves work all year 'round

- Spring - Thatches, renovates and picks up in one pass
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Circle No. 132 on Reader Inquiry Card

NEW PRODUCTS



move and control thatch, reduce compaction and aerate soil. Another Jacobsen product is the Greens King IV riding reel mower which features hydraulic backlapping with reels in place.

Circle No. 203 on Reader Inquiry Card

Custom Products has introduced a new type of Cozy Cab for the John Deere 650 compact utility tractor. The new Custom 200 is the first Cozy Cab with a removable vinyl enclosure. The enclosure, consisting of wire frame vi-



nyl doors and vinyl sides and back, wraps around a four-post ROPS structure with a steel roof to form a weather-tight cab. Heavy duty Velcro fasteners hold the enclosure securely in place, yet permit removal for warm weather work.

Circle No. 204 on Reader Inquiry Card

Vermeer Manufacturing Co.'s V-430 is a compact, 30 hp, rigid frame utility tractor equipped with 4-wheel drive, power steering and 3-speed mechani-



cal drive. The 2861 lb. trencher digs 5-16-in. wide, and down to 60-in. deep. Its features include a heavy-duty crumbler, a digging chain with a tensile strength of 43,000 lbs. and a large diameter end idler.

Circle No. 205 on Reader Inquiry Card

Midmark Corp. has introduced a compact, 7.5 hp walk-behind trencher with a variable digging speed for different soil conditions. Its 20,000 lb. digging chain is designed to trench as deep as 30-in. and as wide as 6-in. Other features of the Midmark 108 include hydrostatic propulsion.

Circle No. 206 on Reader Inquiry Card

London Fog Co.'s portable hand fogger is a 24 lb. unit powered by a gasoline engine. The tool was designed to



create a dense fog of insecticidal solution capable of filling an acre's worth of mosquitoes, gnats, and other flying insects in three to four minutes.

Circle No. 207 on Reader Inquiry Card

Fox Valley Marking Systems' Easy Marker Handle has been redesigned for increased control, comfort and rugged. It has a protective steel hood over the spray tip and the working mechanism is contained within a heavy gauge



steel housing. According to the manufacturer, Easy Marker Handle is perfect for laying out golf courses, grounds for repair, newly seeded areas, traffic control, coding landscape plant material and locations for installation.

Circle No. 208 on Reader Inquiry Card

Continues on page 98



NEW SPRAY NOZZLES and ACCESSORIES From SPRAYING SYSTEMS CO.

NEW— QuickJet™ Nozzle Assemblies

A unique new system of quickly interchangeable self-aligning spray nozzles and spray tips. To provide choice of spray droplet size, in full cone, hollow cone and flat spray patterns. 3/4" NPT (M) inlet conn. Write for Bulletin 195.

NEW— Model 146 DirectoValve®

For remote "on-off" control of spray nozzles and booms from operator's location. Operates on 12 VDC system. Pressure range from 0 to 65 psi. 1 1/4" NPT (F) spray line connection. Write for Data Sheet 16108.

NEW— Model 244 Electrical Regulating Valve

For remote pressure control in agricultural spray applications. 3/4" NPT (F) inlet and outlet conn. Operates on a 12 VDC system. Pressures to 100 psi. Write for Data Sheet 16994.

NEW— 3/4" and 1" Nylon Liquid Strainers

Strainer head and bowl made of reinforced Nylon material for pressures to 75 psi. Threaded bowl can be easily unscrewed by hand. Write for Data Sheet 15353.

SPRAYING SYSTEMS CO.

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Circle No. 152 on Reader Inquiry Card

The 1982 Cushman Runabout Model 531 features a redesigned frame, twin headlights and an improved suspension system. The two-person, three-



wheel turf care vehicle also includes a new centrifugal clutch, a 1500-lb. payload capacity, and an 18 hp engine. A more economical, 12 hp, one person Runabout is also available.

Circle No. 209 on Reader Inquiry Card

Loveland Industries, Inc.'s Tank and Equipment Cleaner was designed to work as both a neutralizer and a stain remover. It can be used on the inside of tanks, hoses, lines and nozzles to help remove residues left from acid-based pesticides, other herbicides and fertilizer. Available in one lb. re-sealable bottles, 12 per carton.

Circle No. 210 on Reader Inquiry Card

Fox Valley Marking Systems has introduced a brand new formula Trig-A-Cap paint in the original upside down can. The pigment is designed to be brighter, easier to see and make longer lasting marks. The paint is available in



12-oz. cans in APWA colors of yellow, blue, green, red and orange; regular colors of cloud white, electric blue, yellow and aluminum; and fluorescent colors of red orange, red cerise, orange and green.

Circle No. 211 on Reader Inquiry Card



Kawasaki's new two-cycle, 4.3 hp motor for use on heavy duty commercial mower and machines includes a CDI electronic system, a cast iron cylinder wall and a gas/oil mix of 25:1.

Circle No. 212 on Reader Inquiry Card

American Enka Co.'s Enkamat is a flexible soil-reinforcement webbing made from nylon monofilaments fused at their intersections. Its three-dimensional structure is a bulky mat of open construction, leaving 90% of its volume as open space which allows grass roots to grow into and through it. According to the manufacturer, Enkamat is environmentally safe, unaffected by

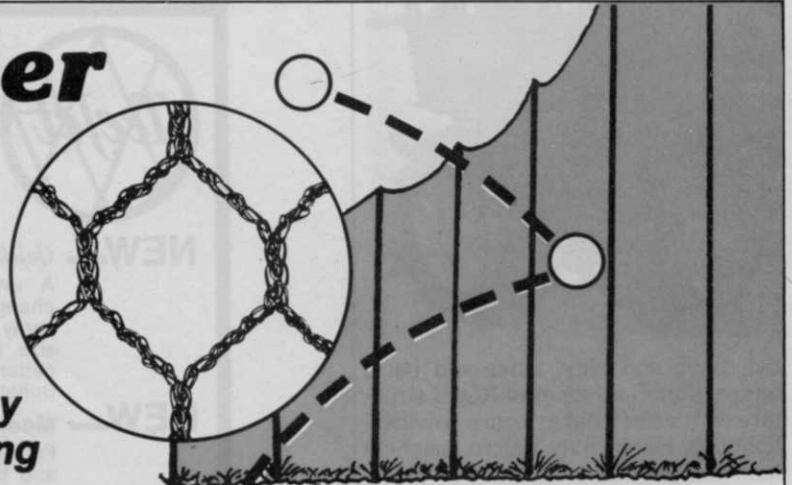
Continues on page 101

Ball Barrier Netting

New, easily installed, inexpensive way to stop "off course" balls.

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- Fast installation—3 times faster than wire.
- Wide widths—eliminate 75% of joining pieces.
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SPECIFICATIONS

- Material: Olefin Fibers
- Mesh size: 1"
- Strength per mesh: 60 lbs.
- Bursting strength per mesh: 220 lbs.
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ACCESSORIES

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READER SERVICE INFORMATION CARD

3-82 2

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104	118	132	146	160	174	188	202	216	230
105	119	133	147	161	175	189	203	217	231
106	120	134	148	162	176	190	204	218	232
107	121	135	149	163	177	191	205	219	233
108	122	136	150	164	178	192	206	220	234
109	123	137	151	165	179	193	207	221	235
110	124	138	152	166	180	194	208	222	236
111	125	139	153	167	181	195	209	223	237
112	126	140	154	168	182	196	210	224	238
113	127	141	155	169	183	197	211	225	239
114	128	142	156	170	184	198	212	226	240

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C. SUPPLIERS:

- 0205 SOD GROWERS
0210 EQUIPMENT DEALER/DISTRIBUTOR
 OTHER SUPPLIER (PLEASE SPECIFY) _____

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

What is your title? (please specify) _____

Your primary business at this location is: (check one only in A, B or C)

A. LANDSCAPING GROUND CARE FACILITIES:

- 0005 GOLF COURSES
0010 SPORT COMPLEXES
0015 PARKS
0020 RIGHTS-OF-WAY MAINTENANCE FOR HIGHWAYS, RAILROADS, & UTILITIES
0025 SCHOOLS, COLLEGES & UNIVERSITIES
0030 INDUSTRIAL & OFFICE PARKS/PLANTS
0035 SHOPPING CENTERS, PLAZAS AND MALLS
0040 PRIVATE/PUBLIC ESTATES & MUSEUMS
0045 CONDOMINIUMS/APARTMENTS/HOUSING DEVELOPMENTS/
HOTELS/RESORTS

NAME _____

BUSINESS NAME _____ ADDRESS _____

CITY _____ STATE _____ ZIP _____ TELEPHONE () _____

AREA CODE

I WISH TO RECEIVE (CONTINUE RECEIVING) WEEDS, TREES & TURF EACH MONTH YES NO

SIGNATURE _____ DATE _____

Circle
the
Reader
Service
numbers
of those
items of
interest
to you.



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