

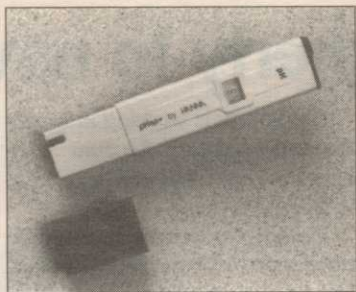
## Hanna adds pocket-sized pH tester

WOONSOCKET, R. I. — Hanna Instruments has introduced the first shirt pocket-sized 0-1 pH accuracy tester for easy pH monitoring.

The pHep Plus features both automatic temperature compensation and two-point calibration for automatic +0.1 pH accuracy.

When used to monitor treated waste prior to discharge, it can help companies comply with EPA guidelines. Applications include water treatment and conditioning, sewage, industrial and hazardous waste, and environmental control.

The new tester also can be used to monitor pH levels in aquariums, swimming pools, streams and ponds.



Hanna pH pocket tester

For more information on the 0-1 pocket-sized pH accuracy tester or any other Hanna Instruments product contact Hanna Instruments, Inc., 584 Park East Drive, Woonsocket, R. I. 02895. or telephone 401-765-7500.

CIRCLE #301

## Biosys receives nematode patent

PALO ALTO, Calif. — Biosys, a producer of biological pesticides for agricultural and consumer markets, has received a U.S. patent for its liquid-culture, large-scale production technology. The patent covers Biosys' process for producing insect-killing nematodes cost-effectively and on a mass scale.

The Biosys patent is the first awarded for the production of multicellular invertebrates in fermenters. The process couples an enhanced media emulsion with other techniques to accelerate the or-

ganisms' growth

The new process can yield sufficient quantities of nematodes per batch to treat more than 10,000 acres effectively, making nematode pesticide technology viable on a major agricultural scale.

Beneficial nematodes are microscopic organisms that seek out and destroy a broad range of soil pests. Biopesticides based on this process are harmless to humans, plants and animals, and leave no residue in soil or groundwater.

For more information contact Biosys, 1057 E. Meadow Circle, Palo Alto, Calif. 94303 or call 415-856-9500.

CIRCLE #307

## Paver minimizes turfgrass wear

SAN DIEGO, Calif. — GOLF 2000 has developed a new soft paver that protects grass from foot traffic and resists wear from spikes. The pavers are especially useful beside tees, ball washers and other heavy-traffic areas.

The grass green pavers are made of toughened polyvinyl chloride with ultraviolet light inhibitors. The pavers interlock to form a seamless pavement which follows ground contours.

Contact GOLF 2000 Corporation, 9842 Hibert St., Suite 257, San Diego, Calif. 92131.

CIRCLE #312.

## Cushman GT-1 has new features

LINCOLN, Neb. — The Cushman GT-1 model utility vehicle incorporates new design features for added durability and smoother operation.

The Turf-Torq KT 30 transaxle features reliability and rugged construction for tough jobs. Also new is the "Z" pattern shift and solid rod linkage for positive gear selection of forward, neutral and reverse. An integral neutral start switch is standard.

The redesigned air intake, with 50 percent larger air cleaner, gives added engine protection along with reduced noises and reduced air cleaner maintenance. The heavy-duty, 8-hp engine includes an adjustable carburetor for smoother engine performance.

The 14-gauge steel cargo box can hold up to 8 cubic feet of cargo and haul up to 1,000 pounds. New front suspension design includes dual three-leaf springs with coil springs in the rear and front and rear shock absorbers.

The GT-1 has a maximum speed of 12 mph. The fuel tank holds 5 gallons.

Contact Cushman, P.O. Box 82409, Lincoln, Neb. 68501 or call 800-228-4444.

CIRCLE #305

## PE Sales offers better True Blue

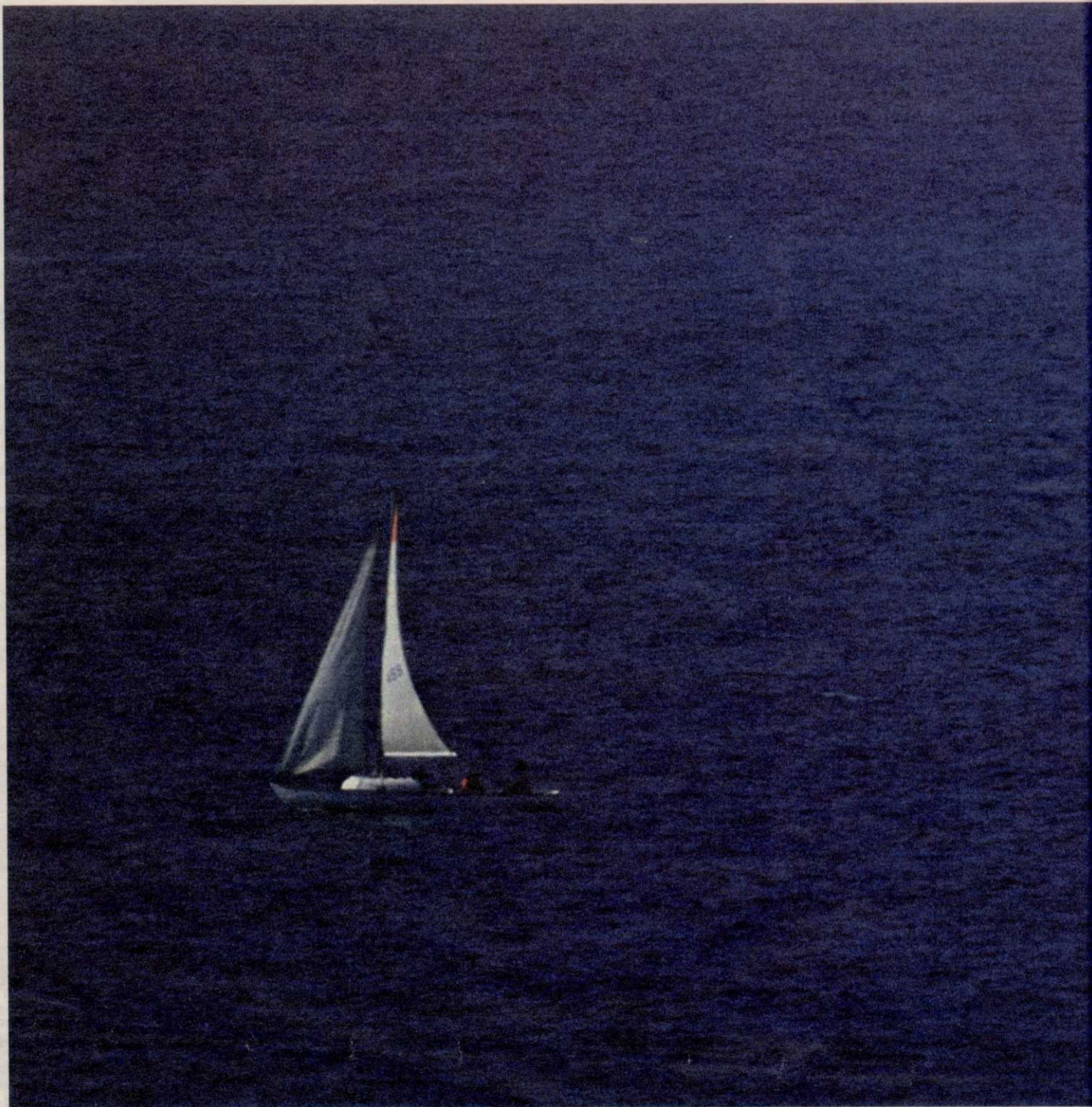
WYOMING, Mich. — PE Sales is manufacturing an improved version of True Blue, its "glue-able" polyethylene irrigation pipe.

In a recent test between New True Blue and schedule 40 PVC fittings, all connections withstood 36,000 pressure cycles, the equivalent of two irrigation cycles per day for 50 years. At maximum safe velocities, gallons per minute averaged 20 percent more than for Schedule 40 PVC.

Improved flow characteristics were attributed to larger inside diameters.

Contact PE Sales, 3727 Linden S. E., Wyoming, Mich. 49548 or call 616-243-1588.

CIRCLE #306



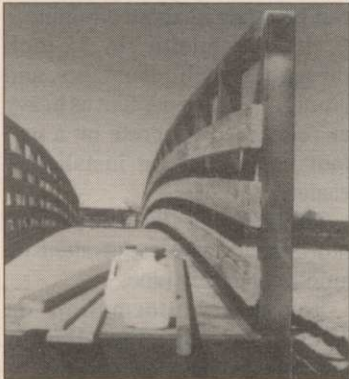
## Continental uses recycled materials

ALEXANDRIA, Minn. — Continental Bridge has introduced recycled plastic components and accessories to its prefabricated bridge products.

The firm offers Durawood plastic lumber made from 100 percent recycled high-density polyethylene (HDPE) for use as bridge decking, rub-rails, hand-rails and toe-boards.

The polyethylene is the end result of discarded dairy containers and detergent bottles shredded, pelletized and molded into a usable product.

Durawood, a product of Eaglewood Profiles, has the ap-



Continental Bridge's plastic lumber

pearance of wood but does not absorb water, so will not rot, split or

splinter. The material is virtually maintenance-free, requiring no painting (natural wood colors are molded in), and is UV-stabilized to prevent fading.

Continental Bridge believes it is the first bridge manufacturer offering HDPE plastic wood components.

For more information on Durawood plastic lumber or any other Continental Bridge products contact Bruce Leland, Route 5, Box 178, Alexandria, Minn. 56308 or call 800-328-2047.

CIRCLE #302

## Honda expands mower products

DULUTH, Ga. — Honda Power equipment enters another lawn care category with the HRC7013ZXA series mid-size commercial walk-behind mower.

It features a unique two-step 36 or 48 inch cutter deck which provides excellent air flow characteristics. In addition to side discharging, the mower offers the option of mulching or bagging clippings.

Powered by a durable 13-horsepower Honda four-stroke overhead valve engine, the mower features a twin hydraulic drive pump and motor system.

This system gives the model a zero-turn radius for high maneuverability and offers variable speeds, plus reverse within the range of the control lever.

Honda's dual control levers provide excellent tracking capability, especially on uneven terrain or landscaping berms.

Operator productivity is enhanced through comfortable, easy-to-use controls combined with exclusive quick height adjustment system, and features a blade brake system to quickly stop the blade when the PTO lever is disengaged.

Contact American Honda Motor Co., 4475 River Green Parkway, P. O. Box 100020, Duluth, Ga., 30136-9420.

CIRCLE #308

## Drop spreader versatile, uniform

LITCHFIELD, Ill. — New drop spreaders developed by Worksaver, Inc., provide accurate and uniform application of seed, granular fertilizer and chemical and eliminate streaking. The spreaders can also be used to spread salt for ice and snow control.

They are ideal for use on golf courses, and in the sod, lawn and garden industry, as well as municipalities, small farms, estates and nursery. Easy to clean, they have pneumatic tubeless 2-ply tires.

Model DS-36 is 36" wide, weighs 87 pounds and has a 180 pound fertilizer capacity. Model DS-60 is 60" wide, weighs 108 pounds and has a 300 pound capacity.

Contact Worksaver, Inc., P. O. Box 1000, South State Road, Litchfield, Ill. 62056. (217) 324-5973.

CIRCLE #309

## Module makes watering easier

RIVERSIDE, Calif. — The Irrrometer Co., has introduced the Watermark Electronic Module (WEM), used with its soil moisture sensor to control individual valves on an automatic irrigation system.

The WEM, and its soil moisture sensors, can be added to any 24-volt (AC) control system without running additional wiring. The new WEM is fully adjustable over the entire soil moisture range, and easily bypassed for manual system operation.

Contact Irrrometer at 714-689-1701.

CIRCLE #310

## Jacobsen mower gives better cut

RACINE, Wis. — Jacobsen's new HR 5111 rotary mower has three rotary decks with a total cut of 11 feet, 3 inches.

All cutting blades are driven by hydraulic motors, eliminating problems caused by belts, pulleys, idlers and deck lids. Motors require no maintenance or lubrication.

A floating deck design reduces the risk of scalping, even on contoured turf. Cutting heights adjust from 1 to 5 1/2 inches.

Contact Jacobsen at 414-637-6711.

CIRCLE #311

## Afternoon Sailing. Thanks To 19-4-6 With Ronstar.

For controlling grassy weeds and delivering a healthy dose of nitrogen to southern turf, nothing works harder or saves more time than Country Club 19-4-6. With RONSTAR® brand herbicide.

Homogeneous granules ensure uniform distribution of nutrients and herbicides. And just one Ronstar® application offers season-long control of goosegrass, crabgrass and 25 broadleaf weeds.

For more information about Country Club 19-4-6 with Ronstar®, or 7-3-22 with Ronstar® for earlier in the spring, contact your local Country Club distributor. Or call Lebanon Turf Products at 1-800-233-0628.

Then apply pre-emergent weed control and fertilizer in just one step. And take the afternoon off.

**Country Club**  
**19-4-6**   
WITH RONSTAR®

CIRCLE #144/GCSAA BOOTH #2616-2618

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## Hancor offers new line of watertight polyethylene drainage products

FINDLAY, Ohio — Hancor, Inc., a manufacturer of plastic drainage products, has introduced TiteLine.

This polyethylene conduit was developed specifically for watertight gravity flow drainage systems.

TiteLine is a modification of Hi-Q, Hancor's high-capacity smooth interior storm drainage pipe.

A corrugated exterior adds strength and a smooth interior high capacity.

Flexible, TiteLine's bell-and-spigot design provides a dependable watertight joint without ad-



Hancor TiteLine

hesives, bolts or tools. Most joints can be made in about a minute.

It is available in 12-inch through 30-inch diameters, and is only about five percent as heavy as reinforced concrete on a per-foot basis, making installation easier.

TiteLine offers 30 to 50 percent more capacity than equivalent-diameter concrete pipe.

For more information on TiteLine or any other Hancor products, contact Hancor, Inc., P. O. Box 1047, Findlay, Ohio 45839 or call 419-424-8314.

CIRCLE #303

## ParCar markets new products

DEERFIELD, Wis. — Columbia ParCar has introduced the Parcar Eagle and the Utilitruck and all-weather Cab.

The Eagle is available in gas or electric models.

Ergonomics have been a priority in Eagle design. The exclusive tilt-to-open clam shell rear body is a time saver, of great benefit to service personnel. The clam shell was designed to expose the entire drivetrain and undercarriage for ease of maintenance and cleaning.

The Eagle's bag rack holds clubs vertically for excellent visibility. Low bagwell height eases loading and removal of clubs.

Two-cycle gasoline engines have been redesigned for higher compression ratios and improved fuel/air combustion. The new combustion chamber, in conjunction with a new engine lubricant, eliminates smoke, spark plug fouling and extends engine life. The electric-powered Eagle's soft start system eliminates jerky starts and damaged turf.

The new Utilitruck has an extended wheel base centered under the payload platform for optimum safety and stability.

With its tight 18-foot turning circle, the Utilitruck works expertly in smaller areas, yet has a generous cargo capacity of 12.5 cubic feet.

Driver visibility, ventilation and weather protection feature the new cab, color impregnated and made of impact resistant materials that will not dent, rust or crack.

Narrow steel pillars and large windows provide driver protection and visibility. Featured is a pop-open windshield and rear vents that combine for true flow-through ventilation.

Contact Columbia ParCar Corp., P. O. Box One., One Golf Car Road, Deerfield, Wis., 53531.

CIRCLE #320

## Echo introduces new shredder

LAKE ZURICH, Ill. — The new Echo hand-held leaf shredder, the Shred 'N' Vac, is designed to vacuum leaves off lawns and pavement while shredding the debris and blowing it into an attached large-capacity bag.

It's the first product in the new "Echo System," Echo's environmentally beneficial product line. The 9-pound unit cleans lightweight garden debris off lawns and decks, out of bushes and gardens and away from driveways and walkways.

After the debris passes through the wide-mouthed intake tube, it is funneled to a four-bladed shredder device located within the unit housing the material. This material, reduced to up to one-twelfth its original volume, may be used to enhance and protect the environment.

For more information contact Echo Incorporated, 400 Oakwood Road, Lake Zurich, Ill., 60047.

CIRCLE #321



# Oregon Fine Fescue.

If you give it a foot, it won't take a yard.

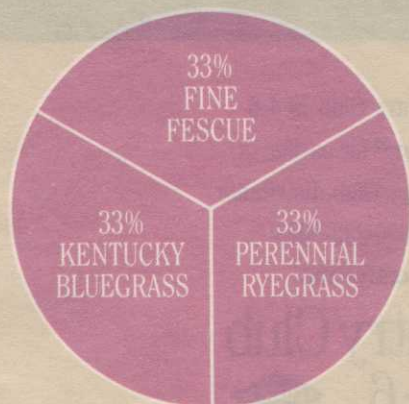
### Fine Fescue Mixes Well

Fine fescue's color and texture is agreeable with rye and blue, and won't crowd out its companions. If you give it a foothold, it won't take over a yard, so to speak.

### Fine Fescue is a Survivor

You'll find that fine fescue may be the only turfgrass to grow in hot, dry, undernourished or deeply shaded areas. It could have just the stuff to carry your turf through tough times.

Sure, we'd like to see 100% fine fescue lawns, parks and golf course roughs, but some people still prefer to add the rapid establishment of perennial ryegrass and the dark, luxurious appearance of Kentucky bluegrass. If you are one of them, we encourage you to include shade and drought tolerant fine fescue in at least 1/3 of the mixture.



Percentage by weight

Now, if you still wish to plant 100% fine fescue, it's O.K. with us. Just call your seed dealer today, and specify *Oregon grown* fine fescue, for sure!



Oregon  
Fine Fescue  
Commission

## E-Z-GO adds energy saver system to cars

AUGUSTA, Ga. — E-Z-GO Textron has added the Wizard of Watts to its golf cart line. The Wizard is an electrical energy management system designed to take advantage of lower rates offered by most utility companies during "off peak" hours.

The system manages the battery recharging process so that the amount of power required at any one time is minimized. By better managing the recharging process, a club's utility costs can be reduced by 20 to 50 percent.

John Bush, who retired in 1990 after 33 years with E-Z-GO, has rejoined the company to manage the sales effort of the Wizard of Watts.

"Since the Wizard of Watts is directly related to electric vehicles, we decided it was an excellent way for us to broaden our full-service approach to golf car fleet sales and management," said E-Z-GO Presi-



E-Z-GO golf car line has Wizard of Watts energy saver.

dent L.T. Walden.

For more information contact E-

Z-GO at 404-798-4311.

CIRCLE #304

## First front discharge topdresser made

ST. PAUL, Minn. — Turfco has introduced an automatic topdresser suited to the needs of commercial groundskeepers.

Ideal for golf fairways and athletic fields, the Mete-R-Matic LA2 Large Area Top Dresser is the lawn care industry's first front-discharge top dresser.

It works with all top dressing materials, wet or dry, and can be used with any standard 35-horsepower tractor.

The front discharge allows the applicator to see the application before the tires roll over it. This means greater control and less

chance of error.

The LA2 can top dress at speeds up to six mph and transport loads up to 20 mph. It provides uniform greens and quality application from 1/16" to 1/2" over a six-foot spread.

It has a two-cubic-yard capacity and eight low-PSI tires for even weight distribution on turf.

The Mete-R-Matic LA2 also features a low profile that lets operators see how much material is left in the hopper.

For more information on the Mete-R-Matic or any Turfco product contact 612-785-1000.

CIRCLE #313

## Gandy machinery rehabilitates turf

OWATONNA, Minn. — Gandy's new multi-purpose turf care machine is designed to help rehabilitate older established turf areas or seed in bare ground.

The compact 48-inch unit is designed for Category I, 3-point hitch systems and is powered by 540-rpm PTO from tractors of 18 horsepower or more.

Serrated knife blades are set on 2-inch centers. Pneumatic tires, rather than skid-supported machines, keep the machine level.

A poly chain belt drive that transfers power from the gearbox to the serrated knife blade shaft operates quietly so as not to disturb course play.

For more information phone 800-443-2476.

CIRCLE #314

## Range markers ease maintenance

AVON LAKE, Ohio — Markers Inc. believes it has a new concept in driving range distance/yardage marking.

Featuring an easy-to-locate ground socket, a brightly-colored marker/target placed on the range is a large, highly-visible, color-coded foam wedge.

If hit, the ball will bounce off without damaging the range marker.

To mow or retrieve range balls, lift the lightweight marker from the ground socket and drive over those locations. Markers are replaced by slipping the anchor back into the ground socket. All markers are washable.

For more information on Markers Inc. range markers call 800-969-5920.

CIRCLE #315



## Wherever Golf Is Played

Few things are subject to more intense scrutiny and concentration than your cups and flagpoles. That's why, from Yuma to Yokohama, the precision craftsmanship and consummate quality of all Par Aide products make them the accessories of choice for courses around the world.

For a free copy of our current catalog, contact your Par Aide dealer or call us today.



*Pictured above: Ichiro Nakamura lines up his 6th putt on the 17th green in Japan's first Cross Training Invitational.*

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