

# PRODUCT SPOTLIGHT

## Growth regulator now EPA-registered for golf, commercial and residential turf care

■ Primo, Ciba-Geigy's new plant growth regulator, has been registered by the Environmental Protection Agency (EPA) for use on highly maintained commercial and residential turf, and golf courses.

The product had been through two years of testing by all user groups under an Experimental Use Permit.

"Primo features new, unique chemistry that's not available in other plant growth regulators," says Bernd Druebbisch, Primo product manager. According to Druebbisch, Primo slows turf growth as needed, and breaks down to carbon dioxide and water. It also inhibits the plant's ability to produce gibberellic acid, which determines cell elongation and internode length.

**Use on all turf species**—Primo may be used on all major warm- and cool-sea-



son turf species, including bahiagrass, common and hybrid bermudagrass, centipedegrass, St. Augustinegrass, zoysiagrass, bentgrass, Kentucky bluegrass, red

and tall fescue and annual and perennial ryegrass.

Ciba-Geigy reports that at standard rates, Primo reduces turf growth by 50 percent for a period of four weeks. This reduces the amount of time required to mow a property, perhaps even helping to eliminate mowing cycles.

Primo also reduces clippings. Lawn care professionals, landscapers and mowing management firms have noted the value of reduced clippings, citing landfill bans on yard waste in 17 states, increased cost of landfill dumping and aesthetic turf advantages, such as denser turf.

Primo may be used as an edging material around ornamental beds, trees, curbs and other areas, and will not injure non-target plants or trees.

**Circle No. 191 on Reader Inquiry Card**

## PRODUCT REVIEW

### Drainage matting product is perfect for use on decks

Enkadrain is a lightweight, durable alternative to gravel for landscape planters, roof decks and plaza slabs, Akzo Industrial Systems says.

By replacing the conventional four to six inches of gravel, the Enkadrain matting offers landscapers considerable savings in weight and cost of hauling.

The matting is described as a polyester filter fabric heat-bonded to a resilient nylon matting of open, three-dimensional construction.

During rainy weather, the filter fabric allows water to drain, while holding back the adjacent soil. By providing proper drainage, problems can be avoided.

According to Akzo, Enkadrain helps prevent root rot and promotes even more root development in planters of any size.

**Circle No. 192 on Reader Inquiry Card**

### Artificial bentgrass divot-proof, suitable for range use

A new simulated bentgrass tee surface has been developed by U.S. Indoor Golf Inc., according to president Irving Bookspan.



The surface features two inches of polypropylene filled with three types of aggregate fiber. It has a shock pad underneath with a simulated rootzone and vertical draining system.

Bookspan says golfers can't take divots

from the tee turf, and placing tees into it is easy, no matter what the weather conditions.

The holes produced by the tees are naturally refilled by the aggregate fibers when the tees are removed.

The surface is also perfect for driving ranges, and a similar, low-maintenance simulated bentgrass surface has been developed for greens, according to Bookspan.

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### Turf-type tall fescue gets plant protection status

Pickseed West, Inc., recently announced that the United States Department of Agriculture issued Plant Variety Protection to Shortstop turf-type tall fescue.

Dr. Jerry Pepin, Pickseed's executive vice-president says Shortstop is a slower-

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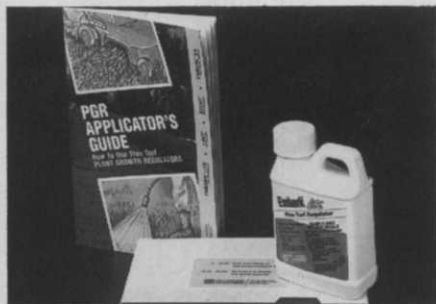
growing, uniform variety, with very dark green color and medium fine leaf texture.

Shortstop performed well in the recent National Tall Fescue Test, ranking first overall among 65 varieties for lowest vertical growth rating. Shortstop also ranked in the top five for turf quality, genetic color, leaf texture and brown patch resistance in the 1991 results of this test.

**Circle No. 194 on Reader Inquiry Card**

## Kit gives a preview of new turfgrass growth regulator

PBI/Gordon Corporation is offering a turfgrass growth regulator preview kit



containing a 124-page booklet, 14-minute video and free product for up to 4000 sq. ft. of turf.

The kit is available to turf managers, lawn care operators, and mowing contractors interested in learning how Embark Lite Fine Turf Regulator can reduce the time and expense of mowing, trimming and clippings disposal.

**Circle No. 195 on Reader Inquiry Card**

## EPA grants approval for turf herbicide label update

Monsanto company has obtained approval from the Environmental Protection Agency for an updated label for Dimension turf herbicide. The revisions further define and expand application procedure information and precautions.

The updated label includes recommendations that Dimension not be applied to turf that has been stressed from temperature extremes, lack of moisture, improper fertilization, soil pH imbalance, use of other chemicals, insects, diseases or mechanical operations.

According to Monsanto, best results are obtained when Dimension is applied to turf that has a well-developed rooting sys-

tem using conventional liquid application equipment with flat-fan nozzles.

The updated label includes turfgrass species distinctions for applying Dimension to certain varieties of creeping bentgrass, fine fescue, bermudagrass and colonial bentgrass. The new label includes a warning for application to older varieties of creeping bentgrass such as Carmen, Cohansey and Seaside, colonial and browntop bentgrasses and Tifgreen or 328 hybrid bermudagrass due to potential for turfgrass injury.

**Circle No. 196 on Reader Inquiry Card**

## New utility vehicles rugged, stable, with good traction

John Deere's "Gators" are new all-purpose turf and off-road vehicles. Their design is rugged, with aggressive traction, stability and light maneuverability.



The 10-hp Gator 4 x 2 has on four wheels, with 2-wheel drive and differential lock. A single-cylinder, air-cooled engine supplies the power. The cargo box is 10 cu. ft., and hauls up to 500 lbs.

The 18-hp Gator 6 x 4 rolls on six wheels and has a 4-wheel drive and differential lock. It's powered by a twin-cylinder, liquid-cooled engine. The larger model has an 11 cu. ft. cargo box hauls 800 lbs. Total payload capacity with operator and passenger is 1200 lbs.

Halogen headlights are standard. Other features include rack-and-pinion steering and internal wet disk brakes.

**Circle No. 197 on Reader Inquiry Card**

## Five-gang fairway mower cuts low to the ground

The new five-gang fairway mower from Jacobsen Division of Textron, the LF-3810, cuts a 115-inch swath with five, 7-inch diameter, 10-blade reels.

Thanks to the company's down-pressure spring system, the mower follows ground contours more precisely for a qual-



ity cut, even with heights as low as 3/8-inch, and mowing speeds up to 7.5 mph.

The mower's 389-hp diesel engine is isolation mounted between the front drive wheels for quiet operation, less vibration and better traction.

**Circle No. 198 on Reader Inquiry Card**

## Companies sign pact to research, market fungicide

The O.M. Scott & Sons Company has signed an exclusive agreement with Sandoz for tolcolfos-methyl fungicide, also known as Risolex.

Scotts has been screening tolcolfos-methyl fungicide since the 1980's. The agreement between the two companies leverages Sandoz's strong position in control technology, and Scotts' applied research, development and marketing strength.

Risolex is being touted for its brown patch and snow mold control attributes, whether alone or in a fungicide pre-mix. Effective on both cool- and warm-season turf, Risolex has the potential to be the active or component ingredient in up to six products in the company's line.

Registration for Risolex is anticipated to occur in early 1994. Product sales could begin in 1995.

**Circle No. 199 on Reader Inquiry Card**

## Material handlers carry the big loads, are easy on turf

Mustang Manufacturing Co. is promoting the payload capacities of its material handlers: from 20 to 91 cu. ft. (one to six tons), ideal for larger golf course projects.

*continued on page 110*

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**SHOWCASE**  
**PRODUCT  
 REVIEW**

Mustang says golf course superintendents have found material handlers particularly useful for reconstructing greens and sand traps, as well as a general utility vehicle for hauling material. Most importantly, Mustang says these vehicles can carry maximum capacity loads across turf without causing damage.

Several models of two- and four-wheel drive material handlers are available. The two-wheel drive models have rear-wheel steering, and the four-wheel drive models have up to 30 degrees articulation and 10 degrees oscillation.

Circle No. 200 on Reader Inquiry Card

**New broadleaf herbicide is dry-sprayable**

Encore DSC (dry sprayable concentrate) is the newest broadleaf herbicide marketed by PBI/Gordon. Encore is a patented formulation containing MCPA.

Packaged in dissolvable, water-soluble bags, the product reduces worker exposure and requires no measuring. Container disposal problems and triple-rinsing are also eliminated.

When applied to foliage, Encore DSC provides a broad spectrum of weed control and may be used on most types of lawns except St. Augustinegrass and dichondra.

Treated areas may be seeded safely three to four weeks after application.



Circle No. 201 on Reader Inquiry Card

**Soil temperature control system installed**

A soil temperature control system raise temperatures below ground, resulting in better turf growth, according to BioTherm, makers of Turf-Temp.

Tubing is placed in an even pattern across the green area, and is connected to special manifolds below the skirt. A choker layer of sand is added, and 12 inches of rootzone mixture.

The supply and return lines are then connected to the heat module discreetly located away from the green.

A water mixture circulates through the system, and multiple soil sensors below the surface of the green, send information to the electronic soil thermostat located at the heat module.

The Turf-Temp was recently installed under a heavily-shaded green at the Palos Verdes Golf Club in Petaluma, Calif.

Superintendent Steve Young reports that temperatures have gone from 39 to 50 degrees, with improved color and increased leaf growth.

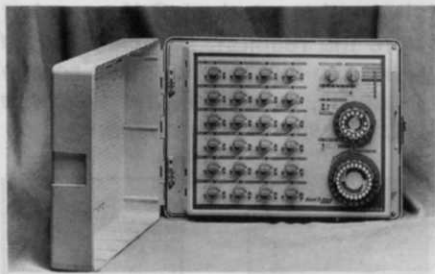
The system's Megatube is super flexible for easy installation. The tubes are resistant to chemicals, and each foot of Megatube is under warranty for 10 years.

Circle No. 202 on Reader Inquiry Card

# PRODUCT REVIEW

## Turfmaster controller combines circuitries

Turfmaster, a state-of-the-art hybrid electromechanical controller, has been introduced by Rain Bird Sales.



The unit combines electromechanical and micro-electronic circuitry. It is capable of fully automatic, semi-automatic or manual operation. All of the programming is through user-friendly dial or lever switches and push/pull pins.

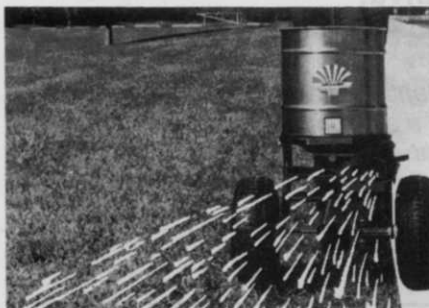
One of the Turfmaster's key features is "Cycle and Soak," which allows the terrain to absorb water at its own pace. The unit also has a non-volatile memory which keeps time during power outages for a minimum of five days.

**Circle No. 203 on Reader Inquiry Card**

## Broadcast spreader patrols landscape borders cleanly

Spyker Spreaders has added the "Border Patrol" broadcast spreader to its line of equipment.

The unit prevents spreading on walks,



drives and other selected areas. It ensures a clean spread, does not produce a burn line, and operates with the touch of a toe.

The Border Patrol deflects the product uniformly across the spread band. It diverts the spread pattern from the left side of the spreader to the front and right side only.

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## Track weather conditions to predict product applications

The Envirocaster is a field installed, predictive instrument designed to monitor the environmental conditions when plant disease and pests become most active.

The computer-driven system is automated and PC compatible.

Neogen Corporation has developed forecasting models for a wide variety of outdoor management practices.

Each Envirocaster holds up to six models per module. A full-equipped unit can monitor air temperature; relative humidity; degree days; leaf wetness; rainfall; soil temperature at two depths; wind speed and direction; soil moisture and dewpoint.

**Circle No. 205 on Reader Inquiry Card**

## Improved aerator unit now follows ground contours

Ransomes America Corporation has made some improvements to its Ryan GA-30 aerator.

The GA-30 now features a free-floating aerator head, which closely follows the contours of the turf. According to Ransomes America, this provides more consistent core cultivation.

Ground pressure is lowered, thanks to new, larger tires. The once optional Windrower attachment is now standard equipment on all GA-30 aerators. The Windrower has double blades to gather cores to the center in the area behind the unit. This prevents tires from crushing the cores on the next pass.

New speed controls operate independent of the aerator drive, to help the operator maintain aerating speeds on slopes.

**Circle No. 206 on Reader Inquiry Card**

## Apply wetting agent with accuracy, consistency

Aquatrols has introduced Dilute 'n Shoot, a new application system designed especially for applying AquaGro-L concentrate.

According to the company, the Dilute 'n Shoot is a hand-held, hose-end proportioner capable of siphoning concentrated AquaGro-L out of the attached five-quart bottle and mixing it with enough water to ensure turf safety, even under the most

stressful weather conditions.

Developed by Aquatrols in response to turf managers' requests, Dilute 'n Shoot is



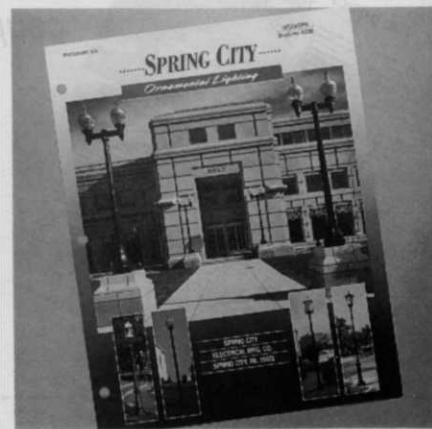
intended as an alternative to applying AquaGro-L with a sprayer and watering it in. It's portable, and can be taken out for use on greens and tees, or to treat localized dry spots.

**Circle No. 207 on Reader Inquiry Card**

## Ornamental lighting info is yours for the asking

A six-page, full-color brochure from Spring City Electrical Manufacturing Co. shows the company's full line of historically authentic, cast iron, ornamental lighting.

The brochure shows the many styles available, and describes its lighted or



unlighted cast iron bollards which thematically harmonize with lighting post styles.

Spring City says it can produce custom-designed orders and historical lighting reproductions.

According to the company, cast iron is an ideal material for lighting fixtures: vibration resistant, sturdy, low-maintenance and corrosion-resistant.

**Circle No. 208 on Reader Inquiry Card**

# PRODUCT REVIEW

## Seeder carries 30-bushels, mounts to many tractors

Land Pride's newest seeder is a 10-foot primary seeder that is able to carry 30 bushels of seed.



The seed box is a welded, water-tight compartment with a double-wall lid and a V-shaped bottom for complete clean-out of seed. Its fluted seed cups meter precise amounts and can be set to accommodate a wide range of seeding requirements.

The seed cups are driven off of the front roller of the seeder, to insure an uninterrupted flow of seed. A wind-protected seed splash board fans the seed out evenly across the width of the seeder.

The seeder has cast iron wheels, mounted loosely around a steel pipe. The first row of packer wheels pulverizes the clods and pushes other rocks down into the seed bed. As the seed is dropped just ahead of the second row of packer wheels, the seed is firmly pressed into the soil.

**Circle No. 209 on Reader Inquiry Card**

## Liquid deicer contains potassium and acetic acid

Cryotech Deicing Technology is now marketing an environmentally-safe liquid highway de-icer.



C-92 Liquid Commercial deicer is made from potassium and acetic acid, which is

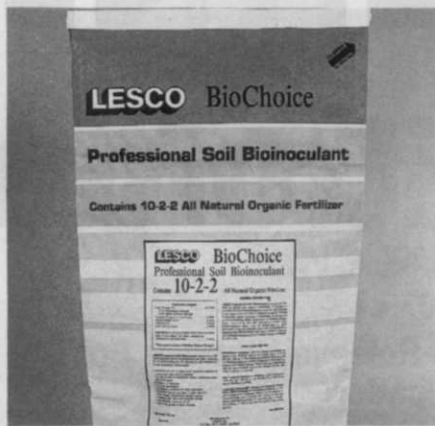
the principal component of vinegar.

Cryotech says C-92 is specially developed to clear snow and ice on highways and bridges, plus other asphalt or concrete and steel structures such as parking decks and sidewalks. It may be used for direct application or as a pre-wetting agent with solid deicers.

**Circle No. 210 on Reader Inquiry Card**

## Soil bioinoculant contains naturally-found microbes

Lesco's new Professional Soil Bioinoculant 10-2-2 is a premium mixture of naturally-occurring soil microorgan-



isms, enzymes and nutrients. It is a low-odor, natural organic fertilizer carrier.

According to Lesco, the product reintroduces soil microbes that have been depleted by cultural and chemical practices.

A depletion of soil microbes may increase plant susceptibility to certain soil-borne disease pathogens.

Professional Soil Bioinoculant contains more than 200 million microorganisms per gram of product. Application provides a slow release source of nitrogen and other nutrients to increase soil microbial activity and improve plant health and growth.

**Circle No. 211 on Reader Inquiry Card**

## Surface aspirating aerator for water two, 12 feet deep

The Toro Surface Aspirating Aerator is suited for bodies of water from two to 12 feet deep.

The unit injects atmospheric oxygen into the water at a high velocity, for an

effective and environmentally safe method of air circulation in a pond.

The system eliminates sprays and splashes while reducing odors, controlling algae and eliminating stratification. The longer bubble hang time created by the horizontal water movement maximizes the oxygen transfer.

The aerator is available in one, two and three-hp models with high efficiency TEFC motors to minimize maintenance.

AquaScape Technologies manufactures a complete product line of pond water quality management equipment distributed exclusively through the Toro Worldwide Distribution Network.

**Circle No. 212 on Reader Inquiry Card**

## Wood fiber mulch product line ships in early spring

Wood Recycling, Inc. introduces its all-new virgin wood fiber mulch product line.

The company will begin to ship four new products in the spring of this year.

WRI offers Refiber brand fiber mulch in 50-lb. bales, palletized and stretch wrapped for easy handling.

The most unique aspect of the product is that it is manufactured from recycled wood waste.

**Circle No. 213 on Reader Inquiry Card**

## Hydro-seeder controls are all within reach of the driver

GeoQuip's new Hydroseeder is made of 100 percent stainless steel, and is totally driver-operated. All controls, including a remote spray gun are within the driver's reach.



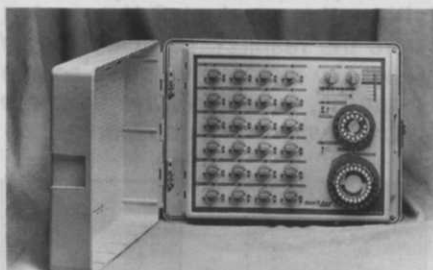
Stainless steel tanks are an advantage, says GeoQuip, because they never require relining.

The driver-operated design cuts labor costs. From the cab, the driver controls the pump engine throttle, and gates to the

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