#### JACKLIN TO RELEASE BERMUDA, ZOYSIA SEED

Jacklin Seed Company is planning to enter the warm-season turfgrass market in "the near future" with improved varieties of seeded bermudagrass and zoysiagrass. A research effort led by Jacklin breeder Dr. Douglas Brede has led to the development of bermudagrasses with improved cold tolerance, earlier spring green-up, finer texture and lower growth habit. A number are already in commercial production.

The new bermudagrasses will offer many of the advantages of vegetative hybrid bermudagrasses with the convenience of seed. They are more cold tolerant because they put rhizomes deep into the soil each winter. thus avoiding exposure to cold temperatures. They are best suited to parts of the transition zone where other bermudas have been killed during the winter and cool-season turfgrasses exhibit disease problems.

Gayle Jacklin-Ward says the company has also succeeded in developing seeded varieties of zoysiagrass. A limited supply will be available by 1990 with a good supply by the following year. The new varieties are slow growing, very wear tolerant, dark green in color and tolerate a wider range of pesticides than vegetative varieties.

Zoysiagrass, the warm-season turfgrass most closely resembling Kentucky bluegrass, has only been available to sports turf managers in this country in slow-toestablish vegetative forms. For years, breeders have been trying to develop

seeded varieties of zoysia so more turf managers could take advantage of the dense, low-growing turfgrass.

#### COMISKEY PARK HOSTS BASEBALL INFIELD CLINIC



Roger Bossard explaining infield maintenance during clinic at Comiskey Park.

Roger Bossard, head groundskeeper for the Chicago White Sox, opened the gates to Comiskey Park for 130 sports turf managers in June and presented a demonstration of baseball infield preparation. The clinic was sponsored by Aimcor, manufacturer of Turface clay basepath conditioner.

"In my opinion, major league infields should be composed of 75 percent clay and

25 percent Turface," Bossard told the group, "while recreational parks should mix at a 65:35 ratio."

Bossard has maintained the park for 22 years. He is also a consultant to Soldier Field and will be involved in the construction of a proposed new stadium for the White Sox to be built next to Comiskey Park.

# **Don't Let** Standing Water Cancel Your Game!



Kuranda Super Soppers remove water from any playing surface.

Five different models can handle any size problemfrom 50 to 5000 gallons per hour.

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### REBOUND

#### LETTERS FROM READERS

#### MORE SPORTS TURF MANAGERS

At every sports event, spectators focus on two things, the athletes and the condition of the field. Both the athletes and the spectators enjoy a higher sense of enjoyment and competition when an event is played in a cool, well-groomed, verdant

There is nothing more discouraging to athletes than trying to play their best on muddy, turfless sports fields. They know that it is virtually impossible to perform at their best on mud and water.

Artificial turf is not the answer. The basic problem is we simply do not have enough sports turf managers to satisfy the need. As a matter of fact, the position of sports turf manager is practically nonexistent. People who are trained in growing and managing sports fields are quickly absorbed by sales organizations and other better paying positions.

ust as every golf course has a superintendent who is responsible for the entire course and the grounds, all types of sports

facilities should have a sports turf manager. Producing acceptable, injury-free turf should not be delegated to school principles, coaches, custodians or civic-minded citizens. Seldom, if ever, have these people been properly trained in the art and science of turfgrass culture.

Every school district should have an overall turfgrass manager for its entire grounds and a job description to fit these responsibilities. The same is true of many municipal park and recreation departments. They spend a great deal of money on recreational programs which put greater pressure on existing turf facilities. But ask to see their sports turf manager and you meet with blank stares. There is no such person. Many private schools, colleges and other sports facilities fall into the same category.

As a result, millions of dollars of public and private money is wasted each year. Most of these dollars are spent on unqualified or unsupervised labor, poor quality seed or sod, wrong fertilizers, heavy weed-infested

soil, poorly selected chemicals, and poorlydesigned maintenance equipment.

It seems that more grass is killed by poor management than it is possible to grow. This results from the wrong type of mowers, wrong height of cut, lack of sensible mowing schedules, aerification or verticutting. and bad irrigation systems and schedules.

When new fields are constructed, no knowledgeable person is on the job to see that the work is being done properly and according to specifications. Low bidders. who have little knowledge of good sports fields, will sometimes bury stones, rocks and other debris which can surface later to cause injury.

It is time to wake up and correct this appauling situation. When administrators refuse to recognize the seriousness of this situation, insurance companies will.

There is no defense for not knowing where to turn for help. The Sports Turf Managers Association, the National Sports Turf Council, the Professional Grounds Management

#### **AUTOMATION** AND ENERGY SAVINGS IN ONE PACKAGE

#### AUTOMATIC PUMP CONTROLLER

The Little General combines the latest in pumping system control sequencing with solid-state technology that allows easy on-site field adjustment without the stress of complicated programing procedures.

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## Grounds Managers



#### This Is What PGMS Is Doing For You

If you haven't checked out the Professional Grounds Management Society recently, then you're in for a surprise. We're offering a bundle of new benefits that make joining PGMS more rewarding than ever! Here's what we've been up to and how you can benefit:

ANNUAL CONFERENCE AND TRADE SHOW - The yearly forum bringing together grounds managers, top speakers, and suppliers for the sharing of knowledge and ideas.

NEWSLETTERS - A newsletter is mailed monthly to keep members current on the affairs of the Society and the latest developments critical to successful

CERTIFICATION - Voluntary peer review of acceptable competence to enable you to become a Certified Grounds Manager. RESEARCH AND SURVEYS - Information on operational practices is

gathered for dissemination of all members INSURANCE - Included in your membership fee is \$5,000.00 accident and

dismemberment insurance.

AWARDS - Members are recognized for outstanding achievement in grounds management. Annual Grounds Maintenance Awards Contest.

THREE MANAGEMENT GUIDELINES

WORKSHOPS, EMPLOYMENT SERVICE, CAR RENTAL DIS-COUNTS

No matter how large or small your operation, PGMS is your source for the best, most meaningful grounds management information and help. Your membership investment goes to work for you immediately — that's the PGMS promise. Join now and grow with

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PROFESSIONAL GROUNDS MANAGEMENT SOCIETY 12 Galloway Ave., Suite 1E, Cockeysville, MD 21030, (301) 667-1833 Association, to name a few, are there to help. Almost every state has a turfgrass specialist to answer your question as part of the Agricultural Extension Service. We also have many excellent magazines that publish timely articles and supply information.

Where will these needed sports turf managers come from? There are many people who qualify for the position of sports turf manager. It's just that no one has recognized them. They have been lost in old, archaic systems of administration. It is time to change the system and move these people into positions of responsibility and authority.

New sports turf managers will come from students entering this growing field of turf-grass management. These people, after serving as assistants under experienced managers, will be ready to take responsibility as managers themselves. Even golf course superintendents are becoming sports turf managers.

The sports turf manager should make up and administer the budget, develop forecasts of future sports needs and manage the work force for maintenance. He should have the authority to purchase the proper equipment and supplies. He should be paid a staff position salary with benefits to attract and hold him.

A sports turf manager more than earns his salary in direct savings resulting from more efficient use of labor, specifying the proper materials and better turfgrass management programs. Insurance rates can be held in line and even lowered when a knowledgeable person is in charge. Most important of all is minimizing injuries to players.

Who is responsible for fractured bones and painful injuries? Responsibility begins with the administrator at the top. Unless he moves to bring physical education programs and sports turf management into perspective, all of the blame will be on his shoulders.

No longer is there an excuse for the negligence of this nationwide problem. Information and help to set up workable sports turf management programs is only as far away as the phone.

Everyone loves sports. Everyone wants to help. But those that are knowledgeable in sports turf management can make it happen.

#### PORT CHARLOTTE

It is with great pleasure that I could read in your March 1988 issue of sportsTURF about one of the best groundskeepers in all of professional sports, namely Tom Burns, in your article "A Star For The Texas Rangers.

I am so privileged to have had the opportunity to work with such an outstanding young man. For him, I am very happy that he is receiving some long overdue credit for his efforts in his chosen profession.

Sarge Anderson, Camp Coordinator California Angels



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BASEBALL

DIAMOND

of the YEAR

AWARD

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# YOU COULD WIN!

Why not enter your baseball field in the **Beam Clay**® Baseball Diamond of the Year Awards contest? No entry fee is required. You could be honored at the upcoming Sports Turf Managers Association Awards Banquet.

The Awards are sponsored by Beam Clay,® the Sports Turf Managers Association, and sportsTURF magazine in recognition of excellence and professionalism in maintaining outstanding, safe, professional quality baseball diamonds. Entries will be judged in three categories: professional diamonds; college diamonds; and school, municipal or park diamonds.

#### Send the information below to enter:

- 1. Age of baseball diamond (year of installation).
- 2. Geographic location (city and state).
- 3. Description of maintenance program.
- 4. Operating budget for baseball diamond.
- 5. Irrigation: None \_\_\_\_ Manual \_\_\_\_ Automatic \_
- 6. Total number of maintenance staff for field.
- 7. Does baseball field have lighting for night games?
- 8. Number of events on baseball diamond per year.
- 9. Types and number of events on diamond other than baseball?
- 10. How many months during the year is the field used?
- 11. Why you think this field is one of the best?
- Include an assortment of color slides or prints of the diamond.

**Deadline for entries:** Entries must be postmarked no later than November 1, 1988. Selection of winners will be made by the Awards Committee of the **Sports Turf Managers Association**.

Mail entries to: Beam Clay Award sportsTURF magazine P.O. Box 8420 Van Nuys, CA 91409







# ROOKIES

#### PRODUCT UPDATE

#### GRANULE SPREADER



The MG10 Granule Spreader from Maruyama applies seed, fertilizer, or other dry chemicals to small areas simply and efficiently. The spreader provides uniform distribution over an 18-foot-wide range. A pattern can be set for the left or right side or for full 180-degree coverage. The hopper holds the dry equivalent of nearly three gallons.

The MG10 has a ten-position adjustable discharge volume and tank agitator to eliminate clumps or jamming. Its lightweight, chest-carry design is convenient for uneven or difficult terrain where ground-driven spreaders can't traverse. It's also handy for spot seeding or treating tees, worn areas of athletic fields and banks around lakes and rivers

MARUYAMA U.S., INC.

Circle 153 on Postage Free Card

#### WATER REMOVAL MACHINE



The tow-behind Marlin has been added to Kuranda USA's Super Sopper line of water removal machines. It can be towed by any tractor or all-terrain vehicle and can remove up to 6,000 gallons of water per hour from

football and soccer fields, golf course fairways, artificial turf, running tracks, and baseball fields.

The Marlin's six-foot-wide drum holds 33 gallons of water; an auxiliary tank holds another 42 gallons. A 110-gallon per minute centrifugal pump, either PTO or gasoline engine driven, allows for simultaneous pickup and pumping away of water through a hose or spray nozzle. Travel wheels allow the unit to be easily transported from one site to another. They can be either hydraulically or manually raised and lowered.

KURANDA USA INC.

Circle 154 on Postage Free Card

#### WEATHER STATION



Water management is more precise with Buckner's Model 39760 Weather Station. The key is the calculation of a reference evapotranspiration rate (ETo). Tied to a PC-type computer through a communication cable, it can be used in conjunction with Buckner's COPS irrigation controller program to analyze the required station run times to satisfy turf or agricultural irrigation requirements.

Not only does the weather station provide the necessary information from the environment to properly calculate ETo, but it stores the data and provides average

weather data on a daily, monthly and yearly format.

Up to four weather stations can be operated from one system. Readings are taken one every minute, averaged every hour and recorded in a daily log within the memory of the weather station.

Special features include a rain gauge that allows recording of rainfall each day. The weather station is mounted on a steel, zinc plated, powder coated pedestal with a full access door for convenient installation and easy service.

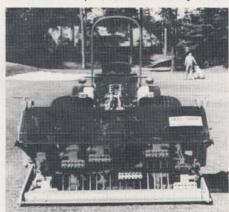
BUCKNER

Circle 155 on Postage Free Card

#### DEEP AERATOR

The Model 105.145 Verti-Drain alleviates the most difficult soil compaction problems. Penetration to a depth of 16 inches is possible; according to the manufacturer, this is more than two-and-a-half times deeper than other aerators on the market today.

The units, which are powered by the PTO of a Category I or II tractor, are capable of aerating up to four acres a day. Verti-Drain continuously drives solid or hollow coring tines into the soil to depths ranging from two inches to 16 inches. The rugged, patented design permits the tines to move back and forth, creating a "lifting" effect to the soil. This action combines penetration through the soil pan for vertical drainage with the shattering effect of the compacted layers for thorough aeration. The overall result is a greatly improved soil environment that allows deeper, healthier root systems.

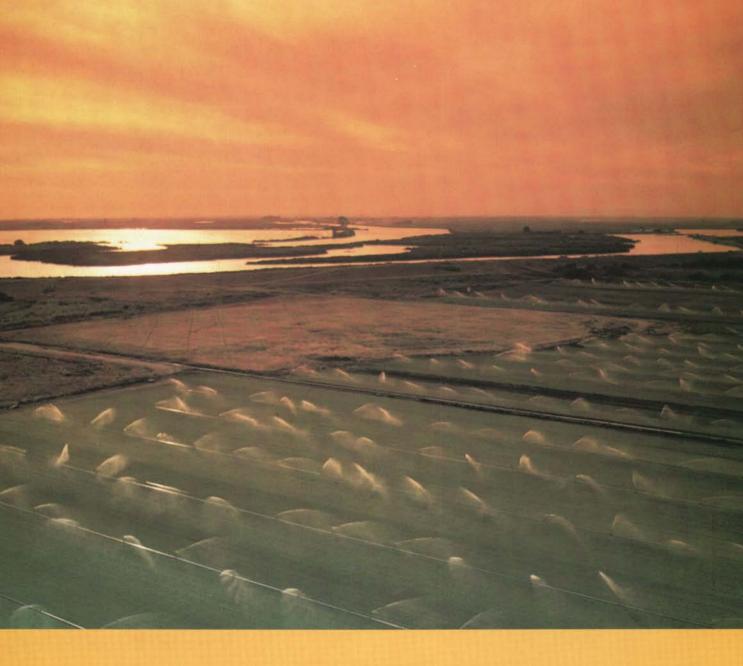


Verti-Drain works well in all types of soils and in a wide range of applications, including golf courses, parks and playgrounds, race tracks, cemeteries, sod farms, tennis courts and athletic fields.

#### **ENVIRONMENTAL MARKETING INTERNATIONAL**

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- Fescue Bluegrass
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## ROOKIES

#### PRODUCT UPDATE

#### KENTUCKY BLUEGRASS

A moderately low-growing turf-type Kentucky bluegrass with improved disease resistance and drought tolerance will be marketed this fall by three midwestern seed companies. Developed under a joint breeding program with Rutgers University and Jacklin Seed, Freedom Kentucky bluegrass has a medium-green color with exceptional color retention in cool weather and a healthy early-spring color.

Capable of producing an aggressive turf of medium-fine texture and moderately high density, Freedom has demonstrated excellent resistance to stem rust, melting out and red thread. It has also shown good resistance to leaf rust and dollar spot. It also exhibits strong tolerance to drought.

Freedom is well-suited for use in blends with other well-adapted persistent cultivars of Kentucky bluegrass. Desirable mixtures may also contain improved turf-type perennial ryegrasses, strong creeping red fescues, and/or improved turf-type tall fescues. These blends and mixtures are recommended for use on parks, athletic fields, institutional grounds, golf courses and school play areas in regions where Kentucky bluegrass is well-adapted for turf use.

Freedom will be marketed by Vaughan's Seed Co., Downers Grove, IL; Beckmann Turf and Irrigation Co., Chesterfield, MO; and Arkansas Valley Seed, Denver, CO.

VAUGHAN'S SEED COMPANY COMPANY

Circle 152 on Postage Free Card

#### **VERTICUT ATTACHMENT**



Thin-Cut attachments from Lesco, Inc., make managing thatch easier by allowing light, frequent vertical mowing with no additional manpower.

The attachments, which go on both the company's 300 Greensmower and its 500 Fairway Mower, remove horizontal blades and runners of turfgrasses. This permits a cleaner, more consistent cut. The result is a faster, smoother, more uniform surface on greens, tees and fairways, without lowering the cutting height. For maximum effi-

ciency, the 22-inch Thin-Cut reels have 88 blades and offer a standard blade spacing of .25 inches. Blades are easily removed to adapt spacing to individual course requirements.

LESCO. INC.

Circle 151 on Postage Free Card

#### ALGAECIDE



Control algae effectively in lakes, ponds and waterways. Cutrine-Plus algaecide, available in liquid and granular formulations, solves problems with filamentous (moss), planktonic (suspended) and bottom-growing (chara) forms of algae without having to restrict water use for irrigation, swimming, fishing or stock watering. It is even used in drinking water reservoirs.

Specially formulated for use in all types of water qualities, this concentrated chelated copper product is environmentally compatible and economical to use. Depending upon types of algae present and water depths, typical dosage rates range from 2 to 4 gallons per acre.

APPLIED BIOCHEMISTS, INC.

Circle 150 on Postage Free Card

#### DISEASE DETECTION KIT

Agri-Diagnostics has developed simple kits which sports turf managers can use to detect the likelihood of three leading turf diseases, brown patch, dollar spot and *Pythium* blight.

While the kits are easy to use, they are based upon a complex scientific reaction between disease organisms present in the



turf and antibodies produced by plants to fight them. The company has reduced a laboratory procedure down to a simple litmus test in which a test strip is inserted into a solution of ground-up turfgrass tissue. A small meter is used to read the darkness of the strip to reveal the level of fungi present.

Repeated during the growing season, the test can warn the turf manager when fungicide applications should be made or repeated. It can also report when applications are not necessary saving both time and money. It allows turf managers to make more timely and accurate disease management decisions, which would enhance the benefits of fungicides and slow the development of resistant strains of fungi.

AGRI-DIAGNOSTICS

Circle 149 on Postage Free Card

#### **AUTO-STYLE DASHBOARD**



The 1988 four-wheel PARCARS feature a new automotive-style console/ dashboard. A convenient dash-mounted key switch controls forward and reverse directions. You choose the direction the golf car goes with the turn of the key.

The dashboards have added space in which a security glove box or stereo may be mounted. Other conveniences include extra ball holders for golfers and drink holders enlarged to fit any-size drink.

COLUMBIA PARCAR CORP.

Circle 148 on Postage Free Card



# Eclipse can be a consistent answer for color, density, disease and shade resistance.

Year after year this low-growing dwarf variety with its beautiful dark green color, great density and improved shade tolerance is in great demand. Improved disease and insect resistance are two more advantages.

Eclipse truly outshines them all and is available from these sources.



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Geo. W. Hill & Company, P.O. Box 787, Florence, KY 41042, 606/371-8423

Jacklin Seed Company, W. 5300 Jacklin Avenue, Post Falls, ID 83854-9499, 800/635-8726 • 208/773-7581

Peterson Seed Co., Inc., P.O. Box 346, Savage, MN 55378, 800/328-5898 • 612/445-2606

Rothwell Seeds (in Canada), P.O. Box 511, Lindsay, Ontario, Canada K9V 4S5, 705/324-9591

Eclipse has been granted U.S. Plant Variety Protection Certificate No. 8000154 and Canadian License No. 2391

# ROOKIES

#### TEE MARKER



Golf course logos and hole numbers can be easily highlighted and identified with the new Wedge Tee Marker. The marker is made of tough, weather-resistant Cycolac. providing for long durability.

Molded finger grips make the marker easy to place and to move. It is anchored by a sturdy galvanized steel stake, and has a wide, highly viewable surface-making it ideal for screen process printing or for the application of decals. It is available in red, white, blue or yellow.

STANDARD GOLF COMPANY

Circle 147 on Postage Free Card

#### HYDROSTATIC DRIVE **MOWERS**



Dixie Chopper mowers now feature full hydrostatic drives. Available in 42-inch, 50inch, and 60-inch sizes, these new models eliminate all drive chains and sprockets.

The 42-inch model is the most powerful in its class and is heavily constructed to meet the requirements of commercial cutters. Features include one-piece formed steel frame. twin path hydrostatic axle and electric mower drive clutch. The sports turf manager has a choice of 16 or 18 hp Kohler engines.

The 50-inch and 60-inch models are equipped with 24 hp Onan engines. Standard features of the larger models include twin Eaton hydraulic pumps and White wheel motors, 3 1/2-gallon hydraulic supply and formed steel high-pressure hydraulic lines.

Standard on all three models are simple. convenient operational controls, stainless steel front panel and fenders, superior design side-discharge mower deck, heavy duty spindles and large low-pressure tires.

MAGIC CIRCLE CORP.

Circle 146 on Postage Free Card

#### SPREADER/TOPDRESSER



The versatility of Hahn's Multi-Pro 44 turf vehicle has been expanded with the addition of a spreader/topdresser attachment. The unit can distribute 600 pounds of dry sand per minute in a 12- to 20-foot-wide swath or fertilizer in a 45-foot-wide pattern.

The spreader features a 17-cubic-foot steel hopper and a new drive system using a cog belt instead of a chain drive. The delivery rate of the material and the pattern can be adjusted by controls which can be reached from the driver's seat.

An optional PTO kit allows the spreader to be attached to the three-point hitch of a tractor.

HAHN, INC.

Circle 145 on Postage Free Card

#### TURF CONDITIONER

The vibrating blades on Yeager-Twose Turf Conditioners break up subsurface compaction as deep as eight inches with minimal surface disturbance and without pulling plugs. The playing surface can be used immediately after cultivation.

The blade depth can be set from one to eight inches. Adjustable pressure rollers level and firm the edges of slits behind the blades.

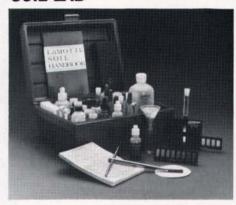
Benefits include no messy plugs, the promotion of healthy root development, a dramatic increase in water percolation, the promotion of aeration and better drainage, and better penetration of fertilizers and chemicals.

Two models are available, a 27-inch wide model and a 70-inch model.

YEAGER-TWOSE

Circle 144 on Postage Free Card

#### SOIL LAB



The Turf Lab Model TL-1 test kit provides on-site evaluations of turf- grass soils. An improved colorimetric test method is used to achieve quantitative measurements for pH and phosphorous. Utilizing an Octa-Slide comparator, permanent translucent color standards are compared to clear liquid test samples for more accurate readings.

The Turf Lab checks potassium levels by using a unique turbidity reading device. Each test kit includes reagents for 200 total tests, a six-inch brass soil sampler, soil report forms and a copy of the 60-page LaMotte Soil Handbook. All components fit into a rugged carrying case for use in the field or in the lab.

LAMOTTE CHEMICAL PRODUCTS COMPANY

Circle 143 on Postage Free Card

#### DWARF KENTUCKY BLUEGRASS

Amazon Kentucky bluegrass is now available in the United States. A dwarf variety from Sweden, Amazon was a winner in turf quality ratings at the University of Beltsville and the University of Manitoba. It also tied for first place in national drought tolerance tests, an important factor in any competitive turf seed mix today.

Amazon sports a medium dark green color and greens up early in the spring. It performs well in seed mixtures and under relatively low mowing heights.

JACKLIN SEED COMPANY

Circle 142 on Postage Free Card