

not seem as precise as a seed drill or spreader, hydraulic seeding is becoming one of the most reliable methods of establishing sports turf. Large areas can be seeded successfully in a single day. The mulch and fertilizer mixed in a slurry with the seed protects the germinating seed from moisture or nutrient stress.

Hydroseeding is usually performed by contractors who have invested in the large, sophisticated equipment necessary and have developed the skill and knowledge to evenly distribute thousands of gallons of slurry over acres at a time. Micke Santoro, president of Southern California Hydroseed & Hydromulch, has golf courses, race tracks, parks and stadiums as regular customers. Using a 3,000-gallon hydroseeder he can sow as little as one-half pound of bentgrass per 1,000 square feet with amazing uniformity.

"Because we are very careful about mixing the right amount of seed, mulch and fertilizer together and how we spray, we can use more expensive improved turfgrass varieties without wasting our customers' money," says Santoro. "There is no reason why they can't have the best turf just because we use a hydroseeder."

Preparation and follow-up is just the same, says Santoro. "The area has to be prepared the same as you would for any other type of seeding method. And, after we finish seeding, we make sure the area is irrigated up



A hose extension is used to hydroseed a new green.

to five times a day. In some cases, we even topdress the area with sand after we hydroseed."

Santoro does not use paper mulch. "Fiber mulch gives the best results. We use from 1,000 to 1,500 pounds of mulch per acre for overseeding and up to 2,000 pounds per acre for new seedings. For greens, we may only be mixing 20 to 30 pounds of bentgrass per acre with the mulch. You have to know

what you're doing."

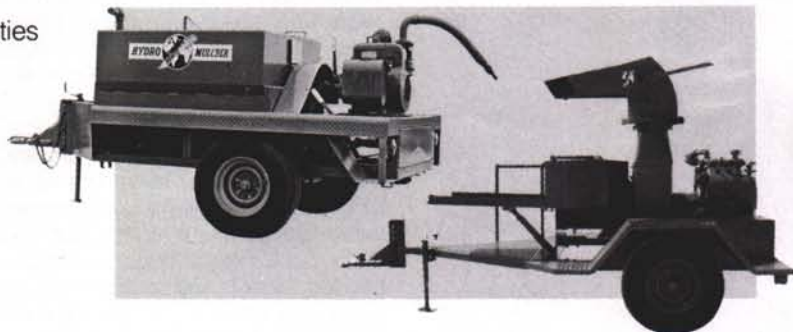
In addition to golf course work, Santoro is having luck convincing parks to overseed using his method. "Parks are often short-handed," he states. "They don't have the people to take care of overseeding in the fall. But that doesn't have to stop them. We can do all the fields in a park in a couple of days and they don't have to hire a single extra person."

GET SERIOUS

**ABOUT YOUR MULCHING & SEEDING EQUIPMENT.
BOWIE HYDRO-MULCHERS & AERO-MULCHERS.
WE COVER THE FIELD.**

BOWIE HYDRO-MULCHER® FEATURES:

- Rugged, Dependable Construction
- Maximum Material Handling Capacities
- Longer Machine Life
- Faster Loading/Unloading Rates
- Larger Power Plants
- Gear or Centrifugal Pumps
- Patented Mulch Shredder Bar
- Superior Anti-Clog Engineering
- Highest Resale Values
- The Industry's Most Experienced Dealer Network



BOWIE INDUSTRIES, INC.

P.O. Box 931 ■ Bowie, Texas 76230

Toll-Free: 1-800-433-0934 ■ In Texas: 1-817-872-2286 ■ Telex: 887844

ROOKIES

PRODUCT UPDATE

MULTIPURPOSE VEHICLES



For the industry turf professional looking for a rugged, reliable vehicle, the Hijet multipurpose utility vehicle from Daihatsu can get the job done.

Powered by a whisper-quiet, three cylinder, water-cooled engine, the vehicle has over 100 applications in turf maintenance, agriculture and industry.

Available in four body types: Cut-A-Way, Full Cab, Hydraulic Tipper and Hydraulic Liftpick/Tipper, all vehicles have rack-and-pinion steering and a super-tight turning radius of only 12½ feet. Steel doors with roll-up windows, guard bars, heater/defroster, turf or regular tires, and a restraint cage are all available as either standard or optional equipment depending on the body type selected.

DAIHATSU AMERICA, INC.

Circle 142 on Postage Free Card

TURF THERMOMETER



Managers of large turf areas are always looking for ways to lower water costs while still maintaining top quality turf. Now they can achieve both with the ST27 Turf Mo-

onitor from Standard Oil Engineered Materials Company.

Using an infrared thermometer to measure turf temperature and environmental sensors to measure air temperature, humidity and solar radiation, the monitor allows superintendents to make watering decisions based on the turf's actual need for water. It also detects turf stress before it can be visually detected to help keep grasses lush. All the information is automatically calculated by a lightweight shoulder-pack computer.

The ST27 Turf Monitor has the capacity to maintain records for up to 135 areas of a golf course including tees, greens, fairways, rough or any other special areas. This is capacity sufficient for 27 complete holes. These records can help the superintendent to identify problem areas where application timing of herbicides, insecticides and fungicides can be improved.

Once compiled, the data can be transferred to personal a computer. The information can be printed for a permanent file allowing superintendents to trace year-to-year stress trends for better turf management. Irrigation models and custom programs can be developed from the data to improve the course or more easily maintain it in top competitive form. Monitors for municipal and industrial applications will soon be available.

STANDARD OIL ENGINEERED MATERIALS

Circle 143 on Postage Free Card

ORNAMENTAL INSECT CONTROL

PBI/Gordon Corporation has introduced Pestroy Broad Spectrum Insecticide, a new organophosphate insecticide-miticide developed to control various insect and mite pests that attack ornamental shrubs and trees. It containing the active ingredient fenitrothion, which is also marketed under the name Sumithion.

The insecticide works on a wide range of pests, including aphids, borers, budworms, caterpillars, cankerworms, leafbeetles, leafminers, mealybugs, palmerworms, lacebugs, sawfly, midges, pine tipmoths, mites, scales, spittlebugs, whiteflies, slugs, psyllids, weevils and southern pine beetles. Pests are affected by both contact and stomach mode of actions, including moderate residual effects resulting from local systemic activity. This is produced by the product's penetrating action into plant tissues.

Recommended rates for control of insects on ornamentals are 1/2 to one pint of Pes-



troly per 100 gallons of water, with the finished spray applied to the point of runoff. It may be used in greenhouses, as well as on young stock and mature trees and shrubs.

PBI-GORDON CORP

Circle 144 on Postage Free Card

ATRIUM GRATE



Designed to eliminate clogging and liability problems, National Diversified Sales, Inc. introduces its 12 inch by 12 inch Atrium Grate. Excellent for non-traffic areas and retrofit, the Atrium is compatible with all NDS 12 inch by 12 inch catch basins and adapter housings.

Made of high-impact space age plastic, it is available in the colors of black, green and gray.

NATIONAL DIVERSIFIED SALES, INC.

Circle 145 on Postage Free Card

ROOKIES

PRODUCT UPDATE

WALK-BEHIND GREENSMOWER



Golf course superintendents who demand increasingly critical care of their greens can find dependability with the features on the Bunton 22 and 26 inch walk-behind greensmowers.

Powered by a 3.5 hp Robin engine, the mower features a powered rotary brush that stands the grass up before cutting, helping to control grain and eliminate runners. The dual-powered, solid aluminum drive rollers cut straighter and provide firmer greens without compaction. The non-floating head gives a straighter and truer cut.

Other Bunton features include optional grooved rollers for closer, more accurate cuts and verticut attachments for thatching.

BUNTON CO.

Circle 140 on Postage Free Card

THREE-WAY HERBICIDE

LESCO Three-Way Bentgrass Selective Herbicide recently received registration from the Environmental Protection Agency for use on bentgrass as well as most other turfgrass species.

Containing the active ingredients dicamba, MCPP and 2,4-D, the herbicide effectively controls black medic, buckhorn, chickweed, clover, spurge, purslane and other common turfgrass weeds.

For other grasses, including Kentucky bluegrass, fescue, Bermudagrass, ryegrass, bahia and zoysiagrass, turf managers may choose LESCO Three-Way Selective Herbicide with the same effective active ingredients for control of an even wider range of broadleaf weeds.

LESCO INC.

Circle 141 on Postage Free Card

Finn Finishes First...again

After 4 years of development and testing the Finn Corporation is proud to announce the new T90 HydroSeeder. This 800 gallon working capacity model is a joint effort of field input and Finn's 50 years of experience. By combining these efforts, Finn developed the highest quality and most efficient machine in the industry. Check it out.

Clean functional design.

New tank design and agitator allows rapid mixing of heavy slurries.

Quick and easy loading with front hatch.



Spray distances up to 150 feet and plug free performance from all new pumping system.

Better over the road/off road performance from a heavier suspension.

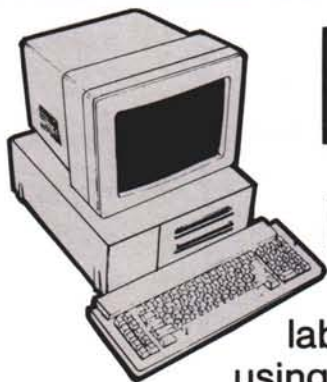
For all the facts about the new Finn T90 and other Finn HydroSeeders and Mulch Spreaders call or write us today.

FINN
CORPORATION

Toll Free (800) 543-7166
Ohio residents call collect (513) 874-2818
9281 LeSaint Drive • Fairfield, Ohio 45014
Plants in Fairfield, Ohio and Knoxville, Tennessee

Products for a better environment.

Circle 132 on Postage Free Card



IRROMETER

FINEST TENSIO METER

Remote Sensing System...

Completely eliminates the labor associated with properly using IRROMETERS. Puts you in full control without ever leaving your office.

Precise Irrigation Management — for Agriculture or Landscapes.

FEATURES:

- True Tensiometers — 60 Years Proven
- Direct/Accurate Measurement
- No Calibration Required
- One Model Covers All Soil Types
- Easily Readable Gauge
- Fully Computer Compatible

ADVANTAGES:

- No Labor to Gather Data
- No Labor to Check IRROMETERS
- Data Available On Demand
- Timely "Irrigation to Need"
- Saves Water, Energy, Labor
- Full Central Control

For further information contact:

IRROMETER CO.

35 years in the Irrigation Management Business
Box 2424 RIVERSIDE, CALIFORNIA 92516 Telephone (714) 689-1701

Circle 133 on Postage Free Card

ROOKIES

PRODUCT UPDATE

BUCKET FORKS



If you have a bucket loader, you can turn it into a fork lift in less than five minutes with bucket forks. No drilling, welding or bolting is necessary to attach the forks to most popular brands of loader buckets.

Once attached, the forks can lift up to 3,000 pounds. The forks can be used to move pallets of sod or fertilizer, bleachers, backstops or tarps. They detach as quick-

ly as they attach, freeing the loader for other jobs.

C.C. BUCKET FORKS

Circle 137 on Postage Free Card

UTILITY VEHICLE



The Smithco Bandit, a four-wheel, all-hydraulic drive utility vehicle, is designed for turf care professionals who carry heavy loads and travel rough roads.

Equipped with a durable 20 hp Onan engine that provides plenty of torque, the Bandit is designed to go over almost any ter-

rain. Available in a choice of three beds—a deep cargo dumpbox, a rugged personnel carrier, or a versatile flatbed with stake sides—the vehicle can haul up to 1,500 pounds.

SMITHCO

Circle 138 on Postage Free Card

KENTUCKY BLUEGRASS

Noted for its dark blue-green color, Midnight is compatible with other darker green, lower-growing bluegrasses, and in mixtures with the strong creeping red fescues and improved II series of turf-type perennial ryegrasses. Other advantages include its dwarf growth habits, very high tiller density—which provides a thick carpet to withstand abuses of athletic fields and high traffic—drought and heat tolerance, as well as cold tolerance, strong overall disease resistance.

TURF-SEED, INC.

Circle 139 on Postage Free Card

SPRINKLERS REBUILT

THE AMERICAN WAY



SEND US THIS...

SATISFACTION
GUARANTEED

NO HASTLES
IN BETWEEN



WE'LL RETURN THIS...

We rebuild: Aqua Dial, Buckner, Rainbird, Royal Coach, Thompson, Weathermatic, Weather-Tec, Rain-O-Mat, & much more...

Large stock of sprinkler parts, valve parts, and a great selection of irrigation supplies. Do yourself a favor, call us today!

WE BUY
OLD USED
SPRINKLERS



IRRIGATION REPAIR & SUPPLY CO., INC.

3270 Seldon Court #3 Fremont, California 94538

(415) 659-8558

GUARANTEED WORK
GUARANTEED TURN-
AROUND TIME!!!

Don't Get Caught Out On A Limb

*If you are involved in tree care you should
not miss:*



ARBOR EXPO

87

Pheasant Run Convention Resort Hotel

December 3-4-5, 1987

*The Largest Tree Care Exhibition and
Educational Conference in North America.*

They're playing our sod...again.
See us at Super Bowl XXII.



How Pacific Sod Won Super BowlTM XXI... way before Super BowlTM Sunday

Our Santa Ana hybrid bermuda sod was grown especially to match the drainage system of the Rose Bowl stadium with its sandy, fumigated soil.

It puts on a good show of winter color—with all the toughness and durability you expect from a pro.

And Pacific Sod leads the league in quality, service and reliability.

When the tough get going, look for the dense green resilience of Pacific Sod. We serve more stadiums* and athletic facilities than any other grower in California.

**Including Dodger Stadium in Los Angeles, Angel Stadium in Anaheim, Jack Murphy Stadium in San Diego*

Main Offices:
Southern California
305 W. Hueneme Rd., Camarillo, CA 93010 • (800) 762-3027
Northern California
2006 Loquat Ave., Patterson, CA 95363 • (800) 692-8690
Part of the growing world of Pacific Horticulture



More professionals choose products from Pacific Sod than any other company in California. We bring you the best.

ROOKIES

PRODUCT UPDATE

AIR-COOLED TRACTOR



Featuring an air-cooled 24 hp twin cylinder Onan engine with cast iron cylinder liner, the Ransomes T-24 offers grounds superintendents the power needed for mowing large estates, municipal grounds, campuses, cemeteries, and golf courses.

Available with cutting decks ranging in lengths of 48, 61, and 74 inches, the tractor features bolt-on rear weights for extra steering ability. Optional wheel weights are available to increase drive wheel traction.

RANSOMES, INC.

Circle 146 on Postage Free Card

ROCK RAKE



Whether being used on large open fields, park and recreation projects, commercial or residential landscaping, the new double roller rock rakes from Glenmac, Inc. allows the moving of windrows several times while cleaning and leveling.

Available in either pull-behind or three-point hitch attachment, in three different sizes, the double roller rock rakes can be used as an accessory to other existing rock picker models.

GLENMAC, INC.

Circle 147 on Postage Free Card

PYTHIUM PREVENTER



Sports turf managers can now gain the upper hand in their battle against pythium blight with new Chipco Aliette, a systemic fungicide developed by Rhone-Poulenc.

Unlike conventional contact fungicides, Chipco Aliette works as a true systemic to activate a natural defense mechanism within the plant. This actually helps your turf protect itself against deadly pythium blight. One spray provides up to three full weeks of protection.

RHONE-POULENC

Circle 148 on Postage Free Card

GREENS CONDITIONER



Golf superintendents no longer have to rely on riding greens mowers to verticut lightly now that Jacobsen has introduced the Turf Groomer greens conditioner for its line of walk-behind greens mowers.

The Turf Groomer lifts up and cuts horizontally growing grasses and surface runners, which are then clipped by the closely following greens mower reel. The strong vertical grass resulting from regular use of the conditioner provides a smooth putting surface. Green speed is increased by as much as 25 percent without lowering cutting height or disrupting play. Green health is maintained since the cutting height does

not have to be lowered in order to provide golfers with faster, smoother greens.

JACOBSEN

Circle 149 on Postage Free Card

PREFABRICATED DRAIN

Burcan Industries Ltd., Whitby, Ontario, Canada, has published an illustrated guide for installing Hitek prefabricated drainage systems. Using text combined with illustrations, the guide explains step-by-step how to properly install both fully wrapped and laminated drains.

The guide describes proper handling techniques and recommendations for better installation.

BURCAN INDUSTRIES LTD

Circle 150 on Postage Free Card

TURF PATCH REPAIR



Designed to start grass fast and promote strong growth in fusarium or other lawn disease patch areas, Ringer Corporation introduces Fusarium Patch, an all-in-one grass patch remedy for disease damaged lawns.

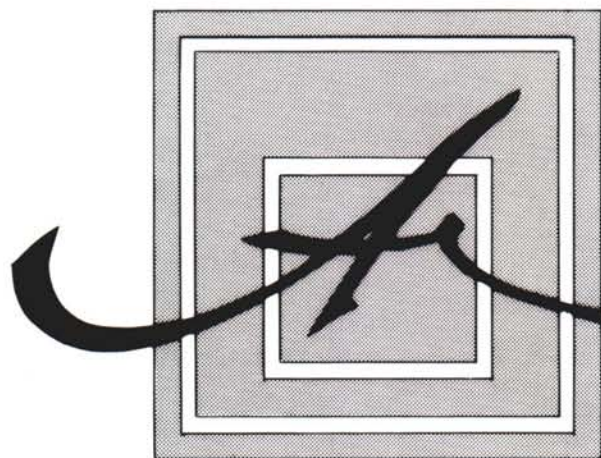
The kits contain a mixture of disease-resistant Kentucky Bluegrass and perennial ryegrass seeds, plus an organic starting mulch with moisture retainers. The seed mixture of Rugby, Parade and Adelphi Bluegrass were chosen for their superior fusarium tolerance, and Delray and NK 200 Ryegrass for their vigorous root systems which will establish well even on compacted soils. Together, they will produce a high-quality turf-grass with broad-based disease resistance and environmental tolerance.

Fusarium Patch is available in a 1.5 and 3 lb. size.

RINGER CORPORATION

Circle 151 on Postage Free Card

The GREEN TEAM In Washington



*Commitment
to Success*

Second Annual Joint
Conference & Trade Show

November 7-11, 1987

Hyatt Regency Crystal City
Arlington, Virginia

*The Commitment to Success continues with the best of the
Landscape Management and Professional Grounds Management
Education and Trade Show. Join us as we make our mark on
Washington with a superb educational program designed
specifically for the needs of the Landscape Management Professional.*



**FOR EXHIBITOR OR REGISTRATION
INFORMATION CONTACT:**



Professional Grounds Management Society

12 Galloway Avenue, Suite 1-E
Cockeysville, MD 21030
(301) 667-1833

Associated Landscape Contractors of America

405 N. Washington Street, Suite 104
Falls Church, VA 22046
(703) 241-4004

YANKEE Turf Products



Roller Squeegee
Removes Unwanted Water
Sizes 24", 36", 48"



Specialty Rake
For Leveling or Luting
Reversible Blade
Sizes 30", 36", 48"



Landscape Rake
Clog-Resistant Tines for Easy
Debris Removal
Sizes 24", 30", 36", 42", 48"



Trap Rake
Sizes 12", 14½", 18"

For a catalog & info on Dealer & Distributors, call:

YANKEE TURF PRODUCTS

200 Shaw Rd., N. Branford, CT 06471
800-432-RAKE or 203-484-9514 in CT.

Circle 102 on Postage Free Card

TERRA COMPACTION SCALE



**Easy Way to Determine
Soil Hardness**
\$139.00

Terracare Products Co., Inc.

P.O. Box 506
Pardeeville, WI 53954

(608) 429-3402

ROOKIES

PRODUCT UPDATE

MULCH UNDERLINER

Professional landscapers have a new ally in their battle against tough, hard-to-control weeds. The Weed Arrest Mulch Underliner by Warren's Seed and Special Products Division proved better than 90 percent effective in restricting the growth of large crabgrass, johnsongrass, yellow nutsedge, dandelion, sandburr, pigweed and six other tough, aggressive weeds, according to field tests done by Clemson University.

Made of 100 percent premium polyester

to resist sun, the soil environment and harsh chemicals, the underliner is needlepunch bonded, making it soft and flexible and easy to install. It conforms smoothly to landscape contours. The bonding also permits water, fertilizers and air to pass through so soil and plantings stay healthy. Its high co-efficient of surface friction keeps bark, wood chips and other mulches in place and helps prevent mulch erosion on tough grades.

WARREN'S SEED & SPECIAL PRODUCTS DIVISION

Circle 107 on Postage Free Card

SCOREBOARD

CLASSIFIEDS

CLASSIFIED ADVERTISING RATES: \$40.00 per inch payable in advance. One inch minimum. There are about 50 words per inch. Send copy with check for \$40.00 at least four weeks prior to issue date to: Classifieds, sportsTURF magazine, P.O. Box 156, Encino, CA 91426. Blind box numbers are available. Special borders and rules will be billed at display advertising rates. Classified ads are not commissionable.

GOLF COURSE REMODELING

Tifton Springs Golf Course Remodeling and Turf-grass Farms has worked for years with the largest golf course construction companies in the United States on some of the finest courses across the country. Tifton Springs has combined a staff of elite operators and supervisors to serve your remodeling needs. Call Rick Sowders anytime at (817) 441- 8896.

GET THE MAXIMUM FOR YOUR WATER DOLLARS.

Larry Keesen, Ltd., offers over 25 years of irrigation design and analysis experience and a national reputation for developing and presenting seminars, training programs and design schools for Toro, Rain Bird and Weather-matic. Keeson is a certified cost estimator and irrigation designer in commercial and golf course water systems. Currently president of the American Society of Irrigation Consultants, Keesen offers state-of-the-art technology and water conservation as specialties. Specific recent projects include: Highland Ranch Golf Course, Glen Eagles Golf Course in Denver, CO, Greenbelts for the Colorado Highway Department, Stellar Plaza in downtown Denver, Denver University and Clayton Colleges, Colorado State Capitol Complex and the Washington Monument in Washington, DC. Call today for a free brochure. (303) 790-2708.

ADVERTISER INDEX

American Irrigation Repair	46
Baseball Diamond of the Year Award	20
Billy Goat Industries Inc.....	22,23
Bowie Industries	41
Compgro	38
Covers Unlimited Inc.	6,7
Estech	5
Finn Corp.	45
Gill Industries.....	21
Hinspergers Poly Industries	26,27
Huber Ranch Sod	32
Jacobsen Mfg. Div. Textron	19
Lang Penetrometer	36
Lely Pacific	29
Lofts Seed Inc.	52
McKee Enterprises	39

Newstripe	32
Ohio Turf Foundation	13
Olathe Mfg. Co.	34
Oly Ola Sales	37
Pacific Sod	8
Parker Sweeper	47
Partac Peat Corp.	38
Precision Plumbing	33
Prescription Athletic Turf	17
Reinco	30
Scotts, O.M., Proturf Div.	2,3
T.H. Riley	51
The Tarp Machine	36
Terracare Products	50
Valley View Specialties	18
Water Hog	31
Yankee Turf Equipment	50