

TURFGRASS SCIENCE AND CULTURE

JAMES B. BEARD



Turfgrass: Science and Culture by James Beard

This is the comprehensive basic text and reference source used in many leading university turf programs. It includes findings of current research compiled from more than 12,000 sources. 658pp. BK-630-\$62.95

Turf Irrigation Manual by James Watkins

The perfect guidebook for engineers, architects, designers and contractors. Keeps pace with the latest developments in turf and landscape irrigation. Specific chapters deal with rotary sprinkler design systems, golf course design systems, and expanded engineering and reference materials. 364pp. BK-640-\$32.95

2nd Edition
T&O CR
1993

Turf & Ornamental Chemicals Reference

1993 Turf and Ornamental Chemicals Reference

2nd. ed. For every professional who makes decisions about the selection, proper use, storage, and handling of chemical products. Provides fast access to new developments. Includes complete product label and information organized by manufacturer, tabbed for quick reference, indexed six different ways, by brand name, manufacturer, product category, common name, plant and site use, pest use. Complete product Material Safety Data Sheets alphabetized by company and brand name, HazCom, SARA and OSHA regulations, table of DOT shipping information, storage requirements, application/record keeping chart. 930pp. BK-645-\$110.00

Compendium of Turfgrass Diseases by Dr. Richard Smiley, Peter Dernoeden, Bruce Clarke

2nd. ed. Contains important new information on biological disease control, root-infecting fungi that cause patch disease, diseases, disorders, and causal agents. Over 60 color photos for easy disease identification. Covers abiotic agents of noninfectious diseases, foliar and/or root diseases, disease diagnosis and control strategy. 128pp. BK-650-\$30.00

VIDEOS!

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IPM in Turf (VHS Video)

See how an Integrated Pest Management (IPM) program for turf increases pest control, cuts costs, reduces use of pesticides and protects health of the environment. Learn how to effectively monitor weeds, insects, diseases, then use habitat modification, horticulture, physical/mechanical, biological and least-toxic chemical controls. Thorough, interesting, practical. Sell your clients on the IPM concept. Help your turf business prosper. VD-100E-\$89.95

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A good turf specialist needs a good education and varied practical experience. This video shows all required in the maintenance of turfgrasses. Starts with how grasses grow and looks at what a site assessment determines. Learn: common types, mowing, irrigation, soil fertility, fertilization, cultural practices, weed/insect/disease/pest control. VD-101E-\$89.95



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PRODUCT SHOWCASE

Fungicide combo controls summer disease complex

A new fungicide tank-mix combination can effectively prevent and control turfgrass summer stress complex and prevent subsequent decline in turf quality, according to Rhone-Poulenc.

Chipco Aliette WDG fosetyl-al fungicide and Fore WP mancozeb fungicide are the control products. University research shows crown and root rot diseases caused by pythium and rhizoctonia can be controlled. The combination fungicides are used every two weeks from mid-June through September: 4 oz. of Chipco Aliette WDG plus 8 oz. of Fore WP per 1,000 sq.ft.

Circle No. 191 on Reader Inquiry Card

New fungicide controls at extremely low rates

Grace-Sierra has just released Algaen-X turf algaecide and fungicide for use in golf, commercial and residential turfgrass.

Grace-Sierra says this new product can control algae at application rates of 1.6 oz. per 1000 sq. ft., and may be safely used on bentgrasses, bluegrasses, bermudagrasses, fescues, ryegrasses, St. Augustinegrasses or their mixtures as well as dicondra.

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Fungicide combines contact and systemic

Lesco's Touche Flowable Fungicide delivers 14- to 28-day preventive and curative control of dollar spot, leaf spot, brown patch and red thread on turfgrass. It is also effective for pink and gray snow mold control.

A flowable formulation, each gallon of Touche contains 4.17 pounds of active ingredient, for reduced handling and easier storage and disposal.

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Fungicide treatment attacks six turf diseases

Fungicide IX, from O.M. Scott & Sons, is designed to control six common turfgrass disease, including Pythium blight and dollar spot on golf course fairways,

Broad spectrum fungicide effective at 1-2 oz. rates, with long residual

Banner systemic fungicide from Ciba-Geigy controls 12 different turf diseases, including dollar spot, brown patch, red thread, anthracnose, rust and summer patch.

Banner is concentrated to be effective at rates of 1 to 2 oz. per 1000 sq. ft. Its long-lasting residual means less frequent applications, and less wear on turf and equipment.

Banner is now available in Ciba-Geigy's new 15-gallon Turf-Pak dispensing system.

Circle No. 194 on Reader Inquiry Card

tees, putting greens and related professional turf areas.

According to Scotts, Fungicide IX, when used in rotation with its Proturf Pythium Control or Fungicide VII, is effective against resistant strains of those diseases. Fungicide IX also helps prevent or control gray and pink snow mold, brown patch and copper spot.

Circle No. 195 on Reader Inquiry Card

Dry flowable works on turf disease prevention

Thalonil 90DF from Terra International, Inc., is a dry flowable fungicide for broad spectrum ornamental plant diseases. As a dry flowable, the product gives the control of a liquid in an easy to handle formulation.

In case of accidental spills, the dry granules can be swept up with a broom and will not soak into clothes or skin.

Thalonil can be used as a preventive or as a curative.

Continued use at recommended rates and intervals will maintain disease control, lower the risk of disease damage and maintain healthy grass and plants.

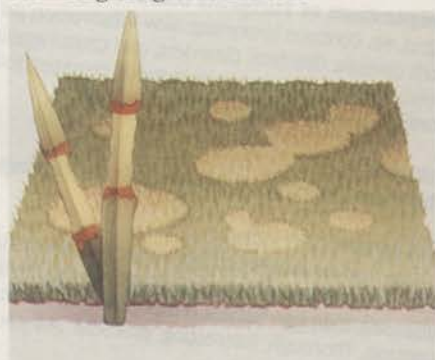
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Broad-spectrum product for look-alike diseases

Rubigan A.S. broad spectrum fungicide from DowElanco is a local systemic sprayable product that prevents and treats 14 common fungal disease on golf course fairways, greens and tees, parkes, athletic fields, and commercial and residential areas.

Rubigan A.S. also controls *Poa annua*

on intensively maintained stands of perennial turfgrasses such as overseeded bermudagrass greens and tees.



DowElanco

For dollar spot control, one low-rate application offers 14 to 28 days curative control for about 10 cents per 1000 sq. ft. per day.

Circle No. 197 on Reader Inquiry Card

Broad-spectrum fungicide controls eight diseases

Curalan fungicide, from BASF, controls eight turfgrass diseases, including dollar spot, brown patch, leaf spot, pink and grey snow mold, Fusarium patch and red thread.

Curalan offers the option of preventive or curative treatments by adjusting the application rate.

Labeled for all turf grasses, and many ornamentals, Curalan is available in liquid flowable or dry flowable formulations.

Curalan may also be used in rotation with other fungicides for optimum disease control.

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TREES & SHRUBS

Care of Shrubs:

Diseases and Pests of Ornamental Plants by Pascal Pirone

5th ed. Standard reference discusses diagnosis and treatment of diseases and organisms afflicting 500 genera of ornamental plants. Reflects current national and state laws and new diseases with photos and illustrations. Indicates approaches by symptom and cause. 566pp. BK-410-\$58.00

Diseases of Trees and Shrubs

by Wayne Sinclair, Howard Lyon, Warren Johnson

Comprehensive pictorial survey of diseases of and environmental damage to forest and shade trees and woody ornamental plants in the U.S. and Canada. Important developments in fungal biology and taxonomy, plant bacteriology, virology, and environmentally induced stress in plants are covered. Newly discovered diseases and accounts of old diseases summarized. 575pp. BK-430-\$52.50

Insects that Feed on Trees and Shrubs

by Warren Johnson and Howard Lyon

Essential information you need for identifying more than 650 insect pests and the injuries they cause on trees and shrubs. Over 200 color illustrations aid identification. BK-690-\$52.50

Ornamental Foliage Plant Diseases by A. S. Chase

Essential reading for the interiorscape industry. Includes: fungal diseases; diseases caused by Helminthosporium-like organisms, Phytophthora, Pythium, and Xanthomonas; bacterial, viral and nematode diseases. Plus, an extensive glossary and index for quick identification. 114 p. BK-415-\$30.00

Elements of Pruning (VHS Video)

A knowledge of proper pruning procedures is a vital skill for gardeners. Find proven techniques clearly presented in this popular videotape for beginners: when and why to prune, basic principles of plant growth, pruning tools, types of pruning cuts, applications of pruning techniques to ornamental trees, hedges, roses, conifers, flowering shrubs, rhododendrons. 26 min. English - VD-755E, Spanish - VD-755S-\$89.95

Tree Maintenance by Pascal Pirone

The care and treatment of trees including special sections on abnormalities, diagnosing tree troubles, non-parasitic injuries and assessing the suitability of trees in different environments. BK-760-\$49.95

Identification:

Shrub Identification by George Symonds

Pictorial key to identifying shrubs contains over 3,500 illustrations to check specimens. Popular and botanical names given. Handy index tabs for quick reference. BK-720-\$19.50

Tree Identification by George Symonds

Make sure you have this pictorial reference to identifying trees by checking leaves, buds, branches, fruit, bark. Popular and botanical names listed with easy-find index tabs. BK-750-\$17.95

Heirst Garden Guides: Annuals edited by Ted Marston

Guide to cultivating seasonal plants, lushly illustrated with over 150 color photos. Learn: success secrets for growing annuals, preparing potting soil, seed-sowing techniques; tips for positioning annuals so they thrive; how to eradicate pests/diseases. An A-to-Z encyclopedia of 200 species of annuals and hundreds of other varieties: Latin and common names, descriptions, cultivation, disease control strategies. 192pp. BK-700-\$25.00

Heirst Garden Guides: Perennials edited by Darrel Apps

Gorgeously illustrated book gives fundamentals of growing perennials, featuring pest/disease control, safe use of chemical fertilizers, mulching, watering techniques, crown divisions, and an A-to-Z plant encyclopedia, with 250 full-color photos. Latin and common names, detailed description, hardiness zones, color, shape, blooming season. 208pp. BK-705-\$25.00

Heirst Garden Guides: Bulbs edited by John E. Bryan

Complete guide to gardening with bulbs, this detailed reference includes extensive A-to-Z encyclopedia showing lesser-known varieties. Covers designing and planting for year-round color, storing, propagating, troubleshooting. 150 color photos. 191pp. BK-701-\$25.00

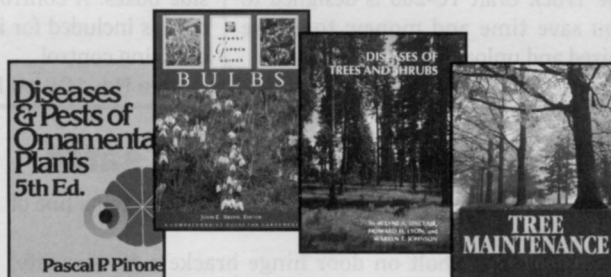
Heirst Garden Guides: Trees & Shrubs edited by R. William Thomas

Complete guide to selecting, planting, nurturing over 1,000 ornamental varieties. 200 color photos, guidance on using trees and shrubs as focal points, selecting the right plant, tips on pruning. 208 pp. BK-702-\$25.00

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PRODUCT REVIEW



Utility/dump body works in a variety of heavy-duty ways

The best features of a utility/service body and a small dump truck have recently been introduced to the landscaping industry with the TC-200 from Truck Craft.

The Truck Craft TC-200 is designed to let you save time and money: tools are organized and unloading is a breeze.

The cargo area measures 48.5 x 101

inches. A dual-hinged tailgate offers full dumping or controlled spreading capabilities.

Each dump body provides protection for the truck cab roof, rear window and side boxes. A control switch on a 10-foot cord is included for in-cab or walk-around dumping control.

Circle No. 199 on Reader Inquiry Card

Power rake cuts through heavy thatch build-up

Parker Sweeper's Thatch-O-Matic Power Rake cuts a 19-inch path through built-up thatch. Handle-mounted clutch and throttle controls and easy height adjustment are designed for operator comfort. Three reel options are available for a wide range of lawn care applications, including spring tines for dethatching;



knives for verticutting and controlling creeping grasses, and flails for heavy thatch removal or lawn renovations.

Circle No. 201 on Reader Inquiry Card

Changes make truck bodies safer

Reading Body Works, Inc. has made some changes to its line of service bodies:

- stainless steel bolt on door hinge brackets for security, strength and easy replacement;
- automotive flange mounted rubber door seals; and
- adjustable striker plates on locks for convenient adjustment of door locks.

Circle No. 200 on Reader Inquiry Card



Trenchless system fast and exact

StraightLine Manufacturing, Inc. has a new fluid-assisted horizontal directional boring unit. The DL305 is designed for use with any auxiliary hydraulic power source that provides 9.5-11.5 gpm at pressures up to 2,500 psi. The model shown has the DirectLine 305 Power Pack. The DL305 is fluid assisted, making it capable of fast, accurate and profitable 20-foot to 100-foot installations.

Circle No. 202 on Reader Inquiry Card

BIOTURF NEWS

For the Latest Developments in Biological, Organic and Natural Turf Care!

With our October premier publication of *Bioturf News*, we at *LANDSCAPE MANAGEMENT* magazine continued our commitment to give you the best possible coverage of green industry happenings.

Bioturf News is our new, bi-monthly review of current research and development in "biological, organic and natural" turf care. In 1993, it will exist independently of *LANDSCAPE MANAGEMENT*.

Alternative turf care products can't be ignored. University research has determined them to be viable forms of insect, weed and disease control.

Many of our readers have also

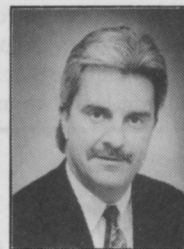
formed opinions of biological and organic products.

Some say biological and organic products are too expensive and take too long to show results. Others believe customers should have a choice. And still others are probably wondering what all the excitement's about.

Our job, as an industry information source, is not to tell you what to think, but to simply relay the information to you—as soon as we can and in the best way possible—and let you take it from there.

There are two sides to every story. Your opinions count, and we want to know what you think of

these products. Have you tried alternative products? If so, what were the results? To make *Bioturf News* the most useful news source it can be, we will always welcome your questions and comments.



Jon Miducki
Publisher



Terry McIver
Editor

Bioturf News will be a bi-monthly newsletter reporting on biological, organic and natural products for the specialty turf market. But you have to subscribe in order to receive it. To receive your free one-year subscription, please return the coupon below to:

Jon Miducki, publisher
LANDSCAPE MANAGEMENT
7500 Old Oak Blvd.
Cleveland, Ohio 44130

Bioturf News will appear independently of *Landscape Management* beginning July 1993. You must be a subscriber to receive it! We've had a terrific response so far. If you haven't sent for your free subscription yet, please do!!

BIOTURF NEWS

Bio-Turf: The Basics

Biological alternatives to conventional chemical control products are more than 30 years old, but are only recently attracting serious attention.

Biological control agents are living organisms that kill or suppress weeds, insects, and diseases. They are often used in conjunction with chemical control products.

Some of the most common biological control agents are nematodes, which are microscopic worms that feed on insects and other soil-dwelling organisms.

Nematodes are particularly effective against grubs and other soil-dwelling insects. They are also effective against some weeds and diseases.

Biological control agents are generally safe for the environment and do not leave harmful residues. They are also often more effective than chemical control products in the long run.

Name _____

Title _____

Company _____

Address _____

City _____ State _____ Zip _____

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PRODUCT REVIEW

Wildflower carpet for quick, easy planting

The Wildflower Carpet from Applewood Seed Co. comes to the rescue for immediate, economical wildflower planting.

The carpet is a mat of densely packed, three-inch high wildflower plants with well-developed root systems.

All plants are at least three months old. Roots are nourished by a thin layer of lightweight, non-soil planting medium supported by an exclusive, non-woven fabric that roots can penetrate.

The carpet will grow in any climate that has cold winter nights averaging less than 40° F for at least two months out of the year.



It requires direct sun for more than four hours a day in growing season.

In the first season, Wildflower Carpet begins to bloom within six to eight weeks after planting. Different flowers bloom throughout the growing season. Perennials include black-eyed Susan, Johnny jump-up and maiden pinks.

Others, such as 'Dame's Rocket,' 'Gaillardia' and 'Rock-ress,' bloom from the second year onward. Plants grow from six to 60 inches high. Depending on conditions, certain wildflowers will be more prevalent than others.

Circle No. 203 on Reader Inquiry Card

Deep orange marigolds an addition to seed supply

'Janie Deep Orange' French marigold is new to the Goldsmith Seeds marigold series. The crested, two-inch around flowers have a shapely silhouette and are never hidden beneath the finely cut foliage. The flowers bloom atop compact, uniform, six-inch high plants.

They are an ideal choice for containers or flower boxes. Also for use as foreground plants in mass plantings, or as a short, free-flowering border plant.

Circle No. 204 on Reader Inquiry Card



Marketing agreement for perennial ryegrass

Pennington Enterprises has acquired the exclusive production and marketing rights to Morning Star perennial ryegrass from Pickseed West. The variety was developed by Pickseed as an "endophyte enhanced" variety that is very fine bladed and genetically dark green in color.

It was developed and tested initially by Pickseed as SYN-P.

Morning Star tested within the top 10 percent in the NTEP quality ratings for 1991. The variety had superior ratings in summer and fall density as well as a high tolerance to brown patch, dollar spot and pythium.

Circle No. 206 on Reader Inquiry Card

Hats and caps protect workers from sunburn

A catalogue from Gempler's, Inc. features 19 styles of comfortable hats and



caps that fully protect the ears and neck, which, according to the company, are highly susceptible to skin cancer.

Circle No. 205 on Reader Inquiry Card

New 12-foot seeder covers large areas at precise rates

Brillion Iron Works, Inc. has a new, 12-foot wide Turfmaker Seeder for landscapers, sod farmers, or anyone wishing to seed large areas at precise rates.

The company says the Turfmaker has 20 percent more capacity in the seedbox than the 10-foot model. The larger, nine-bushel seedbox reduces seeding time, and growers can plant more acres before refilling. The Turfmaker crushes, seeds and rolls in one operation.



Brillion's micro-meter adjustment with an infinite number of settings improves the precision metering of small seeds.

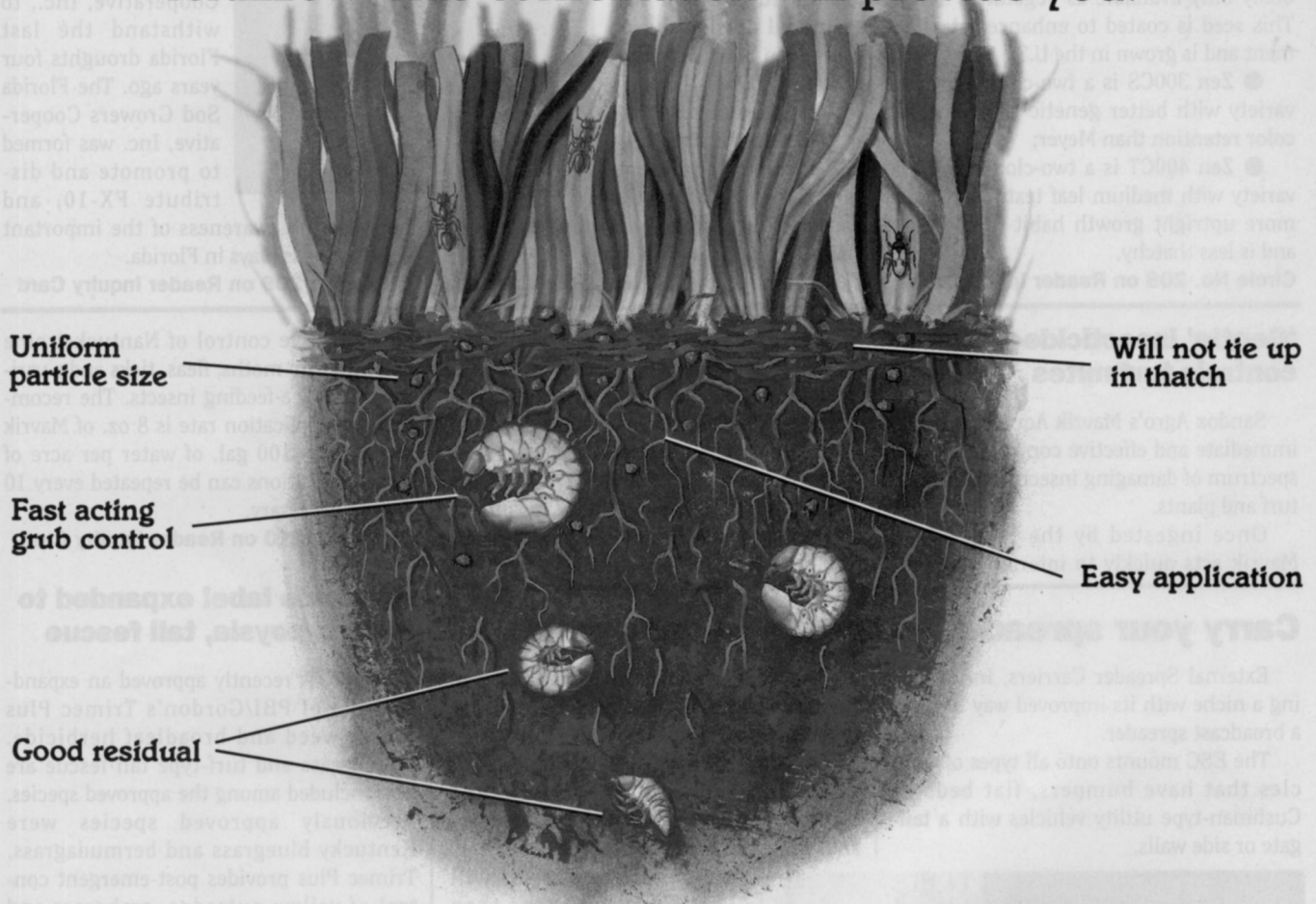
The 12-foot units also feature wider metal deflectors, to help prevent winds from blowing seeds away, and to guide the seed down between the

roller wheels.

Circle No. 207 on Reader Inquiry Card

The Andersons[®] High Quality fertilizers now with the benefits of TURCAM[®] Insecticide

Now you can control 22 Tough surface and subsurface pests including white grubs while you fertilize... This combination will provide you:



Uniform particle size

Will not tie up in thatch

Fast acting grub control

Easy application

Good residual

The Andersons. Uniformly the best in the business.

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PRODUCT REVIEW

New zoysiagrass available in four different selections

Turf Merchants, Inc has developed a new line of seeded zoysiagrasses to meet the developing market for this low-maintenance grass. Four different selections are available in the "Zen Line:"

- Zen 100 is Chinese common *Zoysia japonica*, with medium texture and medium dark green color, chemically treated for faster germination;

- Zen 200CS is the first generation seed from Meyer zoysia which was previously only available as vegetative sprigs. This seed is coated to enhance establishment and is grown in the U.S;

- Zen 300CS is a two-clone synthetic variety with better genetic color and fall color retention than Meyer;

- Zen 400CT is a two-clone synthetic variety with medium leaf texture. It has a more upright growth habit than Meyer, and is less thatchy.

Circle No. 208 on Reader Inquiry Card

Sod root system endures stormy weather

This past winter's "storm of the century" was no match for FX-10 sod, according to the Florida Sod Growers Cooperative. Many of the areas struck by the March torrents were virtually unscathed thanks to the FX-10 grass.

Jim Anderson, of Anderson's Nursery, reported the sod had minimal erosion due to the deep root structure which secured the lawn during the storm.

The Cooperative calls FX-10 drought resistant, and the only grass on the market today that is resistant to chinch bugs.

FX-10 requires little maintenance and



watering. It can withstand longer periods of drought—up to two years—due to the root structure, and requires only quarterly fertilization.

FX-10 was developed by the University of Florida, with patent rights given to the Florida Sod Growers Cooperative, Inc., to withstand the last Florida droughts four years ago. The Florida Sod Growers Cooperative, Inc. was formed to promote and distribute FX-10, and

increase the awareness of the important role turfgrass plays in Florida.

Circle No. 209 on Reader Inquiry Card

'Gentle' insecticide controls turf mites

Sandoz Agro's Mavrik Aquaflo provides immediate and effective control of a broad spectrum of damaging insects and mites in turf and plants.

Once ingested by the target pest, Mavrik acts quickly to interfere with the

insect's central nervous system and destroy its stomach. However, according to Sandoz, the product's low toxicity to small pets, birds and wildlife makes it one of the most gentle insecticides available.

Mavrik eliminates a variety of insects, including whiteflies, aphids, caterpillars, flea beetles, mealybugs, mites and thrips.

The odor-free product also provides

cost-effective control of Nantucket pine and other tip moths, fleas, ticks and a variety of surface-feeding insects. The recommended application rate is 8 oz. of Mavrik mixed with 100 gal. of water per acre of turf. Applications can be repeated every 10 days as necessary.

Circle No. 210 on Reader Inquiry Card

Carry your spreader where it's in easy reach

External Spreader Carriers, Inc. is filling a niche with its improved way to carry a broadcast spreader.

The ESC mounts onto all types of vehicles that have bumpers, flat beds or Cushman-type utility vehicles with a tailgate or side walls.

The carrier will work with Lesco, Scotts, Spyker, Ev-N-Spred or Cyclone broadcast-type spreaders.

Carrying the spreader outside the bed makes room for other items, puts the spreader in easy reach of the technician, and eliminates spills in the truck bed.

The carrier will support more than 300 lbs.; it weighs only 21 lbs.

The cost is \$169. An adapter for Cushman UV's costs \$19.99.

ESC is located in Little Rock, Ark.

Circle No. 211 on Reader Inquiry Card



Herbicide label expanded to include zoysia, tall fescue

The EPA recently approved an expanded label of PBI/Gordon's Trimec Plus grassy weed and broadleaf herbicide. Zoysiagrass and turf-type tall fescue are now included among the approved species. Previously approved species were Kentucky bluegrass and bermudagrass. Trimec Plus provides post-emergent control of yellow nutsedge, crabgrass and other coarse grasses, plus nearly all the broadleaf species controlled with regular Trimec herbicide treatments.

The Trimec Plus rate for tall fescue is the same as Kentucky bluegrass: 3 oz. per 1,000 sq.ft. The zoysia rate is the same as for bermudagrass: 3-5 oz. per 1,000 sq.ft. Recommended spray volume is 1-3 gal. of water per 1,000 sq.ft.

Circle No. 212 on Reader Inquiry Card