ACTI-DIONE[®] was here



Use ACTI-DIONE® on Tees Greens Fairways

THESE PROVEN TURF FUNGICIDES HELP PREVENT OR ERADICATE

- □ Leafspot
- □ Dollarspot
- □ Melting-out
- □ Fading-out
- □ Going-out
- □ Brown patch
- □ Pink patch
- □ Rust
- □ Powdery mildew
- □ Pythium

Your golf course looks better and plays better when you have healthy turf The unretouched photographs on the opposite page were taken the same day at golf courses less than 40 miles apart. The relative conditions of the two courses show what a difference diseases can make.

When you invest up to \$50,000 a year in fertilizer weed control, water and management practices (verticutting, aerifying, mowing and the labor they require), your investment deserves the protection of a complete disease control program.

Many superintendents have discovered fairway disease control programs actually pay their own way by keeping golfers happier and by eliminating the problems and costs which arise when fairway turf is lost. The increased play from growing numbers of golfers is too much of a challenge for anything less than healthy turf.

The same basic principles and practices used to control disease on the greens apply to tees and fairways, even though the level of control on fairways is not so critical as that required on greens.

Although Acti-Dione turf fungicides can eradicate many turf diseases, prevention is always less expensive than cure. You should start your fairway spray program in the spring as soon as possible after the first mowing and continue the program on a scheduled basis—usually an interval of 21 to 30 days.

TUCO has both the proven products and the experienced personnel to help you in your scientific turf management program. Just a call will put one of our highly trained and expert.field representatives to work explaining how you can maintain healthy tees, greens and fairways.

And all these to state by some first birty and

Acti-dione

Thiram

Broad spectrum

furt fungicide

TUCO

dione R2

HEIGHE LEING ANT STOOP STOOP RAD THE LABLE

TUCO

Division, The Upjohn Company, Kalamazoo, Michigan 49001

Acti-dior

Meet a sharp new redhead from Oregon

This sharp redhead is new Oregon Micro Chisel saw chain. It's bound to become the new favorite of the man who wants top performance from his chain saw. Oregon's exclusive red coating protects this chain's factory sharpness against shipping damage. The first cut you make removes the protective coating.

You'll like Micro Chisel's high production—speed and efficiency that only a chisel-type chain can give. Cut more wood per chain, more wood per day. Its cutters slice through wood faster and more smoothly than other styles of chain. Easier on you and your saw. You can file this chisel-type cutter with a round file—quickly and easily.

Ask your Oregon dealer about new Oregon Micro Chisel chain. Now available in sizes to fit all popular saws. Omark Industries, Inc., 9701 S.E. McLoughlin Blvd., Portland, Oregon 97222.







Treflan's effectiveness...



can't be watered down

Elanco's Treflan® forms a dependable weed control zone that works for months, then is gradually and naturally broken down without toxic residue.

Elanco's Treflan won't leach out of its protective zone despite heavy rainfall and repeated irrigation.

Elanco's Treflan is approved for use on more than 130 species of ornamentals.

Elanco's Treflan is the only herbicide that

lets you set liner stock into just-treated soil.

Can be surface applied or soil incorporated.

Elanco Products Company, a division of Eli Lilly and Company, Dept. E-455, Indianapolis, Indiana 46206, U.S.A.



Therblclde that (Treflan®—trifluralin, Elanco) For More Details Circle (111) on Reply Card

It Blows...It Dusts...and It Sprays...Better! Because It's a STIHL!



This is the STIHL SG-17 Mist-Blower that Everyone is Talking About!

It blows, dusts and sprays dry and liquid chemicals, etc. to kill weeds and insects; to fight plant and tree diseases and to perform many related jobs in the garden, on the farm and in nurseries.

It has also proven very versatile for spraying at construction jobs, blowing leaves and debris in sport stadiums, parks and recreation areas, in spraying cattle and dairy buildings and many new uses are being discovered every day.

You'll be amazed at its perfect balance and ease of handling and also at its very, very easy price. See for yourself. It's a STIHL! »Newest from the Makers of the World's Finest Chain Saws«



STIHL American, Inc.

194 Greenwood Avenue, Midland Park, N.J. 07432, Code 201-445-0890 · 7364 Lee Industrial Boulevard, Mableton (Atlanta), Georgia 30059, Code 404-941-1730 · 23962 Clawiter Road, Hayward California 94541, Code 415-785-9100

For More Details Circle (133) on Reply Card

Special for This Issue

Watching Costs at Kidwell Turf 18

Jack Kidwell, Virginia's largest turf grower, knows exactly what his costs are. He has adapted a farm management computer service, offered by Virginia Polytechnic Institute.

Helicopter Seeding of a Golf Course

An Ohio contractor has found the helicopter can seed fairways in one-sixth the time of conventional methods.

How to Foul Up a Herbicide Program

Cecil F. Kerr, turf products manager for Chipman Div., Rhodia, Inc., lists 10 ways a golf course superintendent can use herbicides to put himself over a barrel or out of a job.

William (Badger Bill) Johnson moved his tree care business from Wisconsin to Phoenix, Ariz., and has showed the folks a thing or two about how a real arborist trims trees.

Landscape Outlook

34

24

An American Association of Nurserymen committee sees a bright future, with some new customers, new types of products, and new concept business practices.

Regular Features

Editorial: Up in a Down Year	
The National Greenscape	
Letters to the Editor	
Meeting Dates	
Industry News: Ohio Turfgrass Conference	
New Products	
Trimmings	
Index to Advertisers	
Classifieds	

The Cover

Soil preparation for growing sod has some special wrinkles for Jack Kidwell, Virginia's largest cultivated turfgrass grower. Some of his land lies along the Rappahannock River. It's rolling and rocky. Consequently, a rock picker and a land leveler are essential. The rock picker is capable of removing 100 tons of stones per day. Used in conjunction with a spiked-tooth harrow, a field is worked until the rocks are removed from the top six inches. The land leveler helps prevent small depressions that can delay mowing, foster disease outbreaks, and hamper harvesting operations. Kidwell, left, is chatting with his farm manager, Ralph Firebaugh. Saturnino Espino is aboard the Ford 8000 pulling the Eversman land leveler; Jay Kidwell is on a Ford 5000 pulling the Anderson rock picker.



WEEDS

WEEDS TREES and TURF is published monthly by The Harvest Publishing Company, subsidiary of Harcourt Brace Javanovich, Inc. Executive, editorial headquarters: 9800 Detroit Ave., Cleveland, Ohio 44102.

Single Copy Price: \$1.00 for current and all back issues. Foreign \$1.50.

Subscription Rates: WEEDS TREES AND TURF is mailed free, within the U.S. and possessions and Canada, to qualified persons engaged in the vegetation care industry and related fields in controlled circulation categories. Non-qualified subscriptions in the U.S. and Canada are \$10.00 per year; other countries, \$12.00 per year. Controlled circulation postage paid at Fostoria, Ohio 44830.

[©] The Harvest Publishing Company, 1971, subsidiary of Harcourt Brace Jovanovich, Inc.



Member American Business Press Business Publications Audit





Volume 10, No. 2 February, 1971

Gene Ingalsbe Editor

Arthur V. Edwards Editorial Director

A. J. Michel Advertising Production

Hugh Chronister President and Publisher

Dan M. Humphrey Vice-President, Advertising

> D. D. Langley Director of Circulation

ADVERTISING SALES OFFICES

Cleveland, Ohio 44102 9800 Detroit Ave./216+651-5500 William Schmunk

Chicago, Illinois 60601 333 N. Michigan Ave./312+236-9425 John Kielp

> Shawnee Mission (Kansas City), Kansas 66202 6811 W. 63rd St./913+722-5900 Austin Schnacke

New York, New York 10017 757 Third Ave./212+421-1350 Russell Bandy

Columbus, Ohio 43212 1350 W. Fifth Ave./614+486-9638 James Murney

Lansing, Michigan 48906 4415 N. Grand River/517+372-5254 Paul Bundschu

Los Angeles, California 90005 The Eschen Company 3142 Wilshire Blvd./213+382-8391 Henry Eschen

> San Francisco, California 94104 The Eschen Company 57 Post St./415+781-7440 Al Pierce

Up in a Down Year

YOU CAN EXPECT a better magazine this year. One reason is that we've discovered how constant attention to self-improvement seems to make life more meaningful and worthwhile. Therefore each year, subscribing wholeheartedly to the Avis philosophy, "we try harder," but always setting goals just a smidgen beyond reach. That makes the philosophy perpetuating.

Other reasons for improving are your mushrooming interest in this magazine—and advertisers' reaction to your interest. Example: Last year, we forwarded to manufacturers some 28,000 inquiries from you concerning advertised products and new product announcements. The 1970 total was double the previous year!

Advertisers responded with enthusiasm, increasing their space purchases by 35%! Few magazines can report a gain in 1970.

So we're responding with some new features. One begins with this issue; another comes in March. There will be others.

On pages 12 and 14, you'll find "The National Greenscape." Our intention is to present a summary of events that may affect the "green scene" as we know it through the tree and turf care and weed control industries this magazine serves. More than a Washington column, it will report on developments from many sources—governments at all levels, universities, industries, professional associations, and so on.

Writing or finding an article that has nationwide application in vegetation care is extremely difficult, considering the different climatic regions and soil characteristics and the multitude of plant species. Yet ours is a national magazine, and we must seek the solution. Therefore, we're approaching the problem from a different angle. Coming in March, we are publishing an index listing *sources* of information. The first index is "100 References for Weed Control." The index will list source title, publisher, complete address, and the price, if there is one.

We hope to list sources from all parts of the country, and, as our search techniques improve, be able to provide you periodically with an index of information pertinent to your operations wherever you are located. After the first index comes out, if you've found a helpful source we missed, let us know.

A word about the notice below. We're delighted with your growing interest in WEEDS TREES and TURF. Practically every day we get new requests to receive the magazine. Unfortunately, simple economics limits the number of magazines we can send free. (There are more who can qualify for a free subscription than we're able to send.) Consequently, we must serve the first 33,000 who fill out the renewal card stapled in above. (Of course, we shall happily enter your paid subscription at \$10 per year!)

We hope your interest continues to grow (and particularly your support of our advertisers—who make the magazine possible). As it does, we shall then be able to consider other new and expanded services for you.

Gene Ingalsbe

TIME TO RENEW: Your Renewal Card Is Bound In Above

We need your okay to continue sending you WEEDS TREES and TURF magazine on a *free* basis. In fact, we must have it.

We—and other publishers—have been somewhat remiss in the past in that we've sent your copy of the magazine whether or not you sent your card in. This can no longer be done.

As you know, subscriptions are free to bonafide members of the industry. You qualify. But economics has again reared its head and we must stabilize our circle of readers. We shall maintain the magazine circulation at 33,000 the number which constitutes the basis for our advertising rate. No additional magazines will be sent except at the published rate of \$10 per year in the U. S. and Canada.

MAY WE HEAR FROM YOU—by way of the bound in card above? Simply tear it out— SIGN and check your answers. DO NOT LOSE YOUR FREE SUBSCRIPTION TO SOMEONE ELSE. We want your continued support and we need you on our list.

Thank you.

Art Edwards, Editorial Director

(This renewal notice is a requirement of our national auditing service to verify that you are a member of the industry and that you wish to receive the magazine.

TELL ME MORE

This page is provided for your convenience. To obtain additional information on new products, trade literature and advertised products in this issue, simply circle the corresponding number on the perforated card below, fill in your name, business address and mail the card. No postage is required.

FOR MORE INFORMATION FILL OUT AND MAIL TODAY!

ADVERTISED PRODUCTS

101	102	103	104	105	106	107	108	109
110	111	112	113	114	115	116	117	118
119	120	121	122	123	124	125	126	127
128	129	130	131	132	133	134	135	136
137	138	139	140	141	142	143	144	145

NEW PRODUCTS

700	701	702	703	704	705	706	707	708
709	710	711	712	713	714	715	716	717
718	719	720	721	722	723	724	725	726
727	728	729	730	731	732	733	734	735

Please send more information on i	items circled
(Please type or print)	2/71
Name	
Position	
Company	
Street	
City	
State Zip	
Please describe your type of business	

Note Inquiries serviced until Mar. 20, 1971

A

Use this convenient card if you wish to receive further information on products and services advertised or described in this issue.

BUSINESS REPLY MAIL

NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

postage will be paid by



POST OFFICE BOX 6049 DULUTH, MINNESOTA 55802 FIRST CLASS PERMIT NO. 665 DULUTH, MINNESOTA

Try Tandex on your own impartial panel of weed control experts.



Tandex can give you a more economical ground maintenance program.

Tandex is a soil sterilant. And it's proven its weedkilling power for use around industrial plant sites, storage areas, lumberyards, tank farms and the like. Broadleaf weeds, grasses,

even woody species die when Tandex is applied. And its power persists for a season or longer.

Spray wettable Tandex powder (WP 80) or use the granular form. The handy five-pound plastic container is especially convenient. Tandex can be combined Industrial Chemicals, Niagara Chemical Division, Middleport, New York 14105

with fortified oils and other herbicides for special control situations.

Write to Department A, Niagara Chemical Division, **FMC Corporation**, Middleport, N.Y. 14105.

