



WE'RE INTRODUCING IMAGE[®]
FOR A LOT OF REASONS,

Until now, controlling purple nutsedge in turf was a tall order. No matter what you did to eliminate it, the problem kept popping up.

That's why American Cyanamid developed new IMAGE[®] herbicide. It's the first post-emergent product that controls purple

nutsedge in warm-season grasses. Even when temperatures are at seasonal highs.

IMAGE is also effective against other tough-to-stop weeds. That includes wild garlic and wild onion.

What's more, you can use IMAGE herbicide on all warm-season turf species

BUT ONE STANDS OUT.

(except Bahiagrass) and all soil types— with no volatilization. And it's compatible with fertilizer as well as other herbicides for tank mixing.

So ask for new IMAGE. The only herbicide for turf that stands up to purple nutsedge.



Always read and follow label directions carefully.

IMAGE[®]
herbicide



LESCO SELLS IT.

Only new IMAGE® herbicide effectively controls purple nutsedge in warm-season grasses. And LESCO sells IMAGE. To order or to learn more about this important new herbicide, call (800) 321-5325. We'll send you a free, fact-filled brochure. Or contact your LESCO sales representative.



Lesco, Inc., 20005 Lake Road, Rocky River, Ohio 44116 (216) 333-9250

The Florida Green

The Official Bulletin of the Florida Golf Course Superintendents Association

Florida Green Phone: Days - (305) 793-2497

Officers and Directors for Florida G.C.S.A.

REED LeFEBVRE..... **President**

Plant City Golf & Country Club

3102 Coronet Rd., Plant City, FL 33566 • (813) 752-1524

TOM BURROWS..... **Past President**

Turtle Creek Club

Club Circle Dr., Tequesta, FL 33458 • (305) 746-8911

RICHARD C. BLAKE, C.G.C.S...... **Vice President**

Quail Ridge Country Club

3715 Golf Road, Boynton Beach, FL 33436 • (305) 737-2889

JOEL JACKSON..... **Secretary-Treasurer**

Lake Buena Vista Club

6780 Tamarind Circle, Orlando FL • (305) 828-3664

ECKHOFF AWARD

For Excellence In Golf Journalism



1st Place 1985



Golf Correcting Water Usage Image

DAVID LOTTES..... **South Florida**

Rolling Hills Golf Resort (305) 475-0400

MARK HENDERSON..... **Palm Beach**

Mayacoo Lakes Country Club (305) 793-1706

KEVIN DOWNING, C.G.C.S...... **Treasure Coast**

Mariner Sands Country Club (305) 283-7500

JOE ONDO..... **Central Florida**

Winter Pines Golf Club (305) 671-1651

DAVID MOTTE..... **Everglades**

Wildcat Run Country Club (813) 765-0750

ROBBIE ROBBINS..... **North Florida**

Gainesville Golf & Country Club (904) 375-3037

WILLIAM SMITH..... **Gulf Coast**

Killearn Country Club (904) 893-2412

CECIL JOHNSTON..... **West Coast**

Feather Sound Country Club (813) 576-9353

GARY SMITHER..... **Sun Coast**

Tournament Players Club at Prestancia (813) 923-3104

DAN JONES, C.G.C.S...... **Florida Green Editor**

Banyan Golf Club

9059 Ranch Rd., West Palm Beach, FL 33411 • (305) 793-0069

DICK LONG..... **Printer**

Printing Services, Inc.

3249 N.W. 38th St., Miami, FL 33142 • (305) 633-2571

TABLE OF CONTENTS

President's Message	8
Letters to the Editor	10
Controlling Mole Crickets	12
An Expert Speaks	14
Palm Beach Trade Winds	22
Preventive Maintenance	28
Ed Fatica, C.G.C.S. Pound for Pound.....	30
North Florida Divots	36
Watching Your Tees & Q's	40
Topdressing	47
South Florida Sunshine	54
Better Turf - A World Concept.....	58
Suncoast Sails	66

ABOUT OUR COVER

Plantation Golf & Country Club is located on the lower Gulf Coast of Florida in Venice. Ed Fatica is Golf Course Manager.

DANIEL ZELAZEK
Cover Photography

For reprints or other photographic needs, call Daniel at (305) 746-2123.



Florida Green Reporters

South Florida	(305) 563-2229	.....	George Jones
Palm Beach	(305) 482-1005	.....	Mike Bailey
Treasure Coast ...	(305) 231-6885	.....	Jim Callaghan
Central Florida ...	(305) 828-3663	.....	Joel Jackson
North Florida	(904) 384-8038	..	Donald Kooyer, C.G.C.S.
West Coast	(813) 867-2111	.....	Charlie Miller
Everglades	(813) 768-0892	.....	Norman Carmouche
Sun Coast	(813) 922-0833	.....	Larry Livingston
Gulf Coast	(904) 932-4222	.....	Charles Brasington

NOTICE: All correspondence concerning business matters, circulation, editorial and advertising should be addressed to the Editor, P.O. Box 5958, Lake Worth, Fla. 33466. Opinions expressed by writers in by-lined editorials are not necessarily those of this publication. "The Florida Green" is published quarterly: January, April, July, October. Closing date for advertising and copy is 45 days prior to publication. Not copyrighted. Please credit the author and "The Florida Green." All advertising and circulation matters should be addressed to Irene Jones, Assistant to the Editor, at the above address or telephone (305) 793-2497.



Do your sand traps look more like the Sahara Desert?

If they do, then you need the Smithco Super Rake,[™] the most advanced sand trap raking system on the market today. The Super Rake features an exclusive adjustable hydraulic floating rake which actually follows the trap contours resulting in a perfectly raked trap everytime.

The Super Rake has a *3-wheel drive system with hydraulic motors on each wheel*. So you get all the power you need. And the unique attachments make sure you have the equipment you need to get every job done quickly, efficiently and economically. Attachments like an *independent cultivator, disc edger, front mounted plow and drag mat*. And for golf courses with less severe traps, the Smithco Easy Rider is an effective mechanical drive rake at an economical price. *Exclusive 2-year warranty*. No one offers a 2-year warranty except Smithco and DeBRA. It's just one more reason why you should consider the Smithco Super Rake.

So don't get trapped by inferior sand trap equipment. Get the Smithco Super Rake. And smooth out your wild deserts.



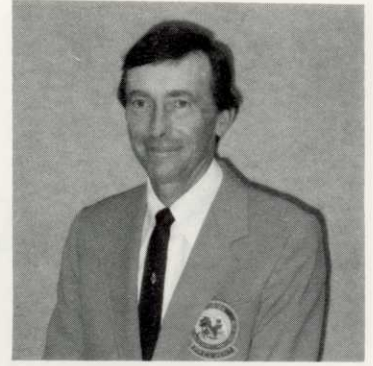
Turf & Industrial Equipment, Inc.

Orlando, FL 3818 N. Orange Blossom Trail 32084 (305) 291-8323 1-800-368-8873	Jacksonville, FL 6123-5 Phillips Hwy. 32207 (904) 333-3115
--	---

DeBRA Turf & Industrial Equipment Company

Hollywood, FL 5921 N. Oak Street 33021 (305) 987-1400	Ft. Myers, FL 2857 Hanson Street 33901 (813) 332-4663	Tampa, FL 6025 U.S. Hwy. 301 33610 (813) 621-3077	Stuart, FL 3913 Bruner Terr. 33497 (305) 288-4838
--	--	--	--

President's Message



How many times a day do we hear someone say "there's a salesman here to see you?" It gets to the point where I believe 99% of the work force out there are sales people. We can't do without them, but I for one could do with a lot less of them.

In all honesty, and being fair to them, about fifty percent know their product, it's short comings, and it's advantages. These same people are pleasant, knowledgeable, and most of all courteous. Our major suppliers know that there are other products of equal value to their own out there, so they stress good personal relationships with the superintendents.

Unfortunately, as in any business, there are those whose ethics are questionable, both buyers and sellers. We have them in our business. A fertilizer business was shut down by the state for short-changing its customers. I'm sure there are superintendents who get free T.V. sets or microwave ovens etc. . . . All this does is short change the club and run the cost of the products they need up. You don't get something for nothing.

There is a fine line between a supplier showing their appreciation for business they have received, and buying business under the table.

I'm confident that our major suppliers, many of whom advertise in this publication, are first class all the way. They not only supply us with the products we need, but back them up with parts, service, and technical advice. ■

Reed Lee Felbre

Diquat...The Versatile Herbicide



ORTHO Chevron Chemical Company

Agricultural Chemicals Division
575 Market Street
San Francisco, CA 94105
(415) 894-6219

Read entire label. Use strictly in accordance with precautionary statements and directions, and with applicable state and federal regulations.

X-77®—Reg. TM of Chevron Chemical Company and Chevron Corporation

ROUNDUP®—Reg. TM of Monsanto Company

Copyright © 1986 Chevron Chemical Company.
All rights reserved. Printed in U.S.A. 8618 DIQ-150.



ORTHO

Diquat

FOR TRIMMING AND EDGING

Facts and Advantages

Diquat... Used for over 20 years (not classified as a restricted pesticide)

Diquat... Clay particles in soil deactivate Diquat on contact (no residual activity)

Diquat... A contact herbicide which gives rapid burndown within 24 to 48 hours

- not translocated into untreated plant tissue
- a broad spectrum herbicide for broadleaf and grassy weed control

Diquat... Highly cost-effective

DIQUAT VS. ROUNDUP®

	Rates/100 gal.	Cost/gal.	Application Cost/100 gal.
Diquat	1-2 qts.	\$60-\$65	\$15-\$30
Roundup	1-2 gals.	\$75-\$85	\$75-\$150

Both of the above products require surfactants for maximum effectiveness. ORTHO X-77® or a comparable nonionic surfactant is recommended for use with ORTHO Diquat Herbicide-H/A.

Diquat... Convenient to handle

- available in one gallon container
- easy to mix and apply
- compatible with most preemergence herbicides

Diquat... The Versatile Herbicide

- can be applied under a broad range of weather conditions: hot, cold, wet, dry
- reduces concern over rainfall following application
- control not tied to vigorous plant growth
- does not interrupt normal mowing frequency
- can also be used for aquatic weed control

NEW
 TECHNICAL DATA
 custom
 formulated
 fertilizer



50 LBS

SPECIAL FORMULATED IBDU FAIRWAY MIXES FOR FLORIDA TURFGRASS



A FULL GRANULAR BLEND, WITH A ONE TO ONE NITROGEN TO POTASSIUM RATIO. NITROGEN CONTAINS A COMBINATION OF SIX UNITS IBDU, 3.5 UNITS NITRATE NITROGEN AND 6.5 UNITS AMMONIACAL NITROGEN. THIS FAIRWAY GRADE CONTAINS MAGNESIUM, MANGANESE AND CHELATED IRON.

TOTAL NITROGEN (N)	16.00%
3.50% Nitrate Nitrogen	
6.50% Ammoniacal Nitrogen	
60% Water Sol. Org. Nit.	
5.40% Water Insoluble Nitrogen	
AVAILABLE PHOSPHORIC ACID (P ² O ⁵)	4.00%
SOLUBLE POTASH (K ² O)	16.00%
Chlorine no more than	11.35%
Derived from Isobutylidene DiUrea, Ammonium Nitrate, Sulphate of Ammonia, DiAmmonium Phosphate, Muriate of Potash, Sulphate of Potash Magnesia.	
STATEMENT OF SECONDARY NUTRIENTS:	
Total Magnesium (Mg)	2.40%
Water Sol. Magnesium (Mg)	2.40%
Manganese (Mn)	1.57%
Iron (Fe)	.06%
Derived from Sulphate of Potash, Magnesia, FTE 217, Chelated Iron.	



A GRANULAR BLEND WITH A COMBINATION OF 5 UNITS IBDU, 5 UNITS SCU, 5 UNITS SULFATE OF AMMONIA, ALL SULFATE OF POTASH CONTAINING MAGNESIUM, MANGANESE, AND IRON. THIS MIXTURE HAS GIVEN EXCELLENT RESULTS IN TESTS CONDUCTED AT THE UNIVERSITY OF FLORIDA RESEARCH CENTER.

TOTAL NITROGEN (N)	15.00%
5.00% Ammoniacal Nitrogen	
5.50% Water Sol. Org. Nit.	
4.50% Water Insoluble Nit.	
SOLUBLE POTASH (K ² O)	15.00%
Chlorine no more than	2.00%
Derived from Isobutylidene DiUrea, Sulphur Coated Urea, Sulphate of Ammonia, Sulphate of Potash and Sulphate of Potash Magnesia.	
STATEMENT OF SECONDARY NUTRIENTS:	
Total Magnesium (Mg)	1.20%
Water Sol. Mag (Mg)	1.20%
Manganese (Mn)	1.00%
Iron (Fe)	2.00%
Derived from Sulphate of Potash Magnesia, Manganese Sulphate, Iron Oxide.	



A GRANULAR BLEND CONTAINING 4 UNITS IBDU, 9.5 UNITS SULFATE OF AMMONIA, GIVING 12.0 UNITS OF SULFUR (COMBINED). THIS MIXTURE HAS A FULL COMPLIMENT OF MINOR ELEMENTS INCLUDING IRON.

TOTAL NITROGEN (N)	16.00%
1.25% Nitrate Nitrogen	
10.75% Ammoniacal Nitrogen	
0.40% Water Sol. Org. Nitrogen	
3.60% Water Insoluble Nitrogen	
AVAILABLE PHOSPHORIC ACID (P ² O ⁵)	4.00%
SOLUBLE POTASH (K ² O)	8.00%
Chlorine no more than	5.00%
Derived from Ammonium Nitrate, Sulphate of Ammonia Isobutylidene DiUrea, Triple Superphosphate, Muriate of Potash and Sulphate of Potash Magnesia.	
STATEMENT OF SECONDARY NUTRIENTS:	
Total Magnesium (Mg)	1.16%
Water Sol. Magnesium (Mg)	1.16%
Manganese (Mn)	0.45%
Copper (Cu)	0.09%
Zinc (Zn)	0.08%
Boron (B)	0.03%
Iron (Fe)	1.24%
Sulfur (combined) (S)	12.00%
Derived from Sulphate of Ammonia, Sulphate of Potash Magnesia, Manganese Sulphate, Copper Sulphate, Zinc Sulphate Borate and Iron Oxide.	

NORTH & CENTRAL FLORIDA
 DWIGHT "BUTCH" SINGO
 802 LIVE OAK LANE
 OVIEDO, FLORIDA 32765
 (305) 365-2923

FLORIDA EAST COAST
 W.E. "BILL" RAYSIDE
 P.O. BOX 6201
 LAKE WORTH, FLORIDA 33466
 (305) 684-6958

FLORIDA WEST COAST
 C. LESTER MCMULLEN
 1569 OAK LANE
 CLEARWATER, FLORIDA 33516
 (813) 531-7171

2121 3rd STREET S.W.
 WINTER HAVEN, FLORIDA 33880
 (813) 293-3147
 1-800-282-9588

ESTECH, INC.
 PROFESSIONAL PRODUCTS DIVISION

SELVITZ ROAD
 FT. PIERCE ROAD
 (305) 464-3511
 1-800-432-2661

NEW
 TECHNICAL DATA
 custom
 formulated
 fertilizer
 50 LBS

PROFESSIONAL PRODUCTS for PROFESSIONAL TURFGRASS MANAGERS.



THE PROBLEM: Mole crickets and other turf insect pests are damaging turf.

THE SOLUTION: Par Ex Slow Release Fertilizer Plus Oftanol® For Southern Grasses 21-2-6.

GUARANTEED ANALYSIS Reg. No. 735-5621

TOTAL NITROGEN (N)	21.00%
12.50% Ammoniacal Nitrogen	
*6.20% Water Soluble Nitrogen	
**2.30% Water Insoluble Nitrogen	
AVAILABLE PHOSPHORIC ACID (P ₂ O ₅)	2.00%
SOLUBLE POTASH (K ₂ O)	6.00%
Chlorine, not more than	6.00%

Statement of Secondary Nutrients:

Manganese (Mn)	0.80%
Iron (Fe)	0.05%

Derived from: Sulphur Coated Urea, Isobutylidene DiUrea, Sulphate of Ammonia, Diammonium Phosphate, Muriate of Potash, Iron Oxide and Manganese Sulphate.

*Includes 6.2% coated slow release urea nitrogen from sulphur coated urea.
 **Includes 2.3% slow release nitrogen from IBDU.

*Controls mole crickets and other major turf insects such as sod webworm, hyperodes weevil, billbugs, chinch bugs & white grub larvae

PLUS

*Superior fertilizer product containing IBDU slow release nitrogen for sustained turfgrass growth, SCU and minor elements.

Insects	Amount
Mole Crickets	4-3/4 lb. per 1,000 sq. ft.
Sodwebworm larvae	
Chinch Bugs	

1. Rake area free of leaves.
2. Mow, if necessary, so granules reach soil surface.
3. Measure area to be treated and apply required amount uniformly, using a fertilizer spreader.
4. Water in promptly after application.

CUSTOM BLENDS

We formulate our products to satisfy the regional nutritional requirements of *your* turf. Many of these mixes contain our exclusive nitrogen source, IBDU.® We are now offering the best additives in our mixes: Ronstar,® Kerb,® Dursban,® Oftanol,® and others. Check with your local Par Ex Territory Manager.



*Ronstar - Trademark of Rhone-Poulenc, Inc.
 *Kerb - Trademark of Rohm & Haas

*Oftanol - Trademark of Mobay Chemical Co.
 *Dursban - Trademark of Dow Chemical Co.

FLORIDA WEST COAST
 C. LESTER MCMULLEN
 1569 OAK LANE
 CLEARWATER, FLORIDA 33516
 (813) 531-7171

NORTH & CENTRAL FLORIDA
 DWIGHT "BUTCH" SINGO
 802 LIVE OAK LANE
 OVIEDO, FLORIDA 32765
 (305) 365-2923

FLORIDA EAST COAST
 W.E. "BILL" RAYSIDE
 P.O. BOX 6201
 LAKE WORTH, FLORIDA 33466
 (305) 684-6958

2121 3rd STREET S.W.
 WINTER HAVEN, FLORIDA 33880
 (813) 293-3147
1-800-282-9588

ESTECH, INC.
 PROFESSIONAL PRODUCTS DIVISION

SELVITZ ROAD
 FT. PIERCE, FLORIDA 33450
 (305) 464-3511
1-800-432-2661



Do your hazards look more like the Everglades?

If they do, then you need the Smithco Runaway with the Lark™ Sprayer attachment. With the attachment in place, your Runaway can handle almost every turf spraying requirement in addition to being the *finest and most versatile turf maintenance truck available.*

The Runaway offers *hydraulic drive and one-pedal operation.* It's *single foot pedal* controls forward, reverse, neutral—even stop. There's *no clutch, no shifter, no brake pedal.* The Runaway's brake system is the engine itself. Lift the drive pedal and the wheels stop. Smoothly, surely and more effectively than any conventional disc or drum braking system. And its *powerful 20 or 24 horsepower air-cooled engine* lets you get from one maintenance job to another quickly.

So if your hazards are bugging you, you need the Smithco Runaway and the Lark Sprayer attachment.



Turf & Industrial Equipment, Inc.

Orlando, FL 3818 N. Orange Blossom Trail 32084 (305) 291-8323 1-800-368-8873	Jacksonville, FL 6123-5 Phillips Hwy. 32207 (904) 333-3115
--	---

DeBRA Turf & Industrial Equipment Company

Hollywood, FL 5921 N. Oak Street 33021 (305) 987-1400	Ft. Myers, FL 2857 Hanson Street 33901 (813) 332-4663	Tampa, FL 6025 U.S. Hwy. 301 33610 (813) 621-3077	Stuart, FL 3913 Bruner Terr. 33497 (305) 288-4838
--	--	--	--

Letters to the Editor

Dear Dan:

Congratulations! You and your publication have been selected as winners in the 1986 GCSAA Affiliated Chapter Newsletter Editors Contest.

A release will be issued soon to affiliated chapters and news media giving official, public notification of the contest results. An article will be published in the January issue of Golf Course Management Magazine on the winning newsletters and the contest details.

We are hopeful that you will honor us with your acceptance of this award. It will be presented at the Newsletter Editors/PR Seminar during the 58th annual GCSAA International Golf Course Conference and Show in the Phoenix Civic Plaza.

The seminar will begin at 8 a.m. Wednesday, January 28, in room 28.

Your name will be announced, and you will be asked to stand and be recognized wherever you may be seated at the Conference and Show's Opening Session, which begins at 5:15 p.m. Thursday, January 29, in Symphony Hall.

If you are unable to attend the Conference and Show for any reason, please notify us well in advance so other arrangements can be made to present your award. Call Clay Loyd or Ann Neuschafer toll free at 1-800/472-7878.

You should be proud of your accomplishment. We look forward to your acceptance and hope you will be able to join us in Phoenix.

If you requested an evaluation of your newsletter by the judges, it will be along soon.

Sincerely,

Riley L. Stottern, CGCS
President

Stephen G. Cadenelli, CGCS
Chairman, GCSAA Communications/
Awards Committee

Dear Dan:

I was pleased to see "In Praise of Zoysia" imprint in FLORIDA GREEN. This grass has tremendous potential. I'll not live to see it fully realized. Thank you!

Enclosed please find the first paper on TURF ever given before the International Grasslands Congress. I attended the 4th in Europe in 1937. I tried to get funding to attend the 5th in New Zealand but failed. The 6th was convened in State College, PA at the PA State University in August 1952. That is where the enclosed paper was presented, published in the Proceedings, which are in my library.

At this Congress I exhibited a sod of the combination of Merion bluegrass and Meyer Zoysia. It was a sensation! This paper represents a bench mark in turfgrass history. It preceded the formation of the International Turfgrass Society. Few people have seen this paper few living had heard it and fewer still know it exists. Not that Penncross bent hadn't been named.

If you can use the paper fine! If not, it may make a good file stuffer.

My best to Irene,

Fred
Editors Note: See page 54
Dr. Fred Grau

Dear: Mr. Jones:

Thank you for your entry in the 1986 Harry C. Eckhoff Award competition honoring local and regional golf journalism.

The Florida Green will be submitted to our panel of judges who will select this year's winners sometime in early 1987.

Thank you again for your interest, and good luck!

Sincerely,

Sally Holihan
Communications