



Vol. 33, No. 4  
JULY/AUGUST 1995

**USGA PRESIDENT:**

Reg Murphy

**GREEN SECTION COMMITTEE CHAIRMAN:**

Thomas W. Chisholm  
26101 Northwestern Highway, Southfield, MI 48076

**EXECUTIVE DIRECTOR:**

David B. Fay

**EDITOR:**

James T. Snow

**ASSISTANT EDITOR:**

Dr. Kimberly S. Erusha

**ART EDITOR:**

Diane Chrenko Becker

**DIRECTOR OF COMMUNICATIONS:**

Mark Carlson

**NATIONAL OFFICES:**

United States Golf Association, Golf House  
P.O. Box 708, Far Hills, NJ 07931 • (908) 234-2300

James T. Snow, *National Director*

Dr. Kimberly S. Erusha, *Director of Education*

Marty Parkes, *Manager, Green Section Communications*

P.O. Box 2227, Stillwater, OK 74076 • (405) 743-3900

Dr. Michael P. Kenna, *Director, Green Section Research*

**GREEN SECTION AGRONOMISTS AND OFFICES:**

**Northeastern Region:**

United States Golf Association, Golf House  
P.O. Box 4717, Easton, PA 18043 • (610) 515-1660

David A. Oatis, *Director*

Robert Y. Senseman, *Agronomist*

500 N. Main St., Palmer, MA 01069 • (413) 283-2237

James E. Skorulski, *Agronomist*

**Mid-Atlantic Region:**

P.O. Box 2105, West Chester, PA 19380 • (610) 696-4747

Stanley J. Zontek, *Director*

Keith A. Happ, *Agronomist*

**Southeastern Region:**

P.O. Box 95, Griffin, GA 30224-0095 • (404) 229-8125

Patrick M. O'Brien, *Director*

Christopher E. Hartwiger, *Agronomist*

**Florida Region:**

P.O. Box 1087, Hobe Sound, FL 33475-1087 • (407) 546-2620

John H. Foy, *Director*

**Mid-Continent Region:**

720 Wooded Crest, Waco, TX 76712 • (817) 776-0765

James F. Moore, *Director*

P.O. Box 1130, Mahomet, IL 61853 • (217) 586-2490

Paul H. Vermeulen, *Agronomist*

**North-Central Region:**

P.O. Box 15249, Covington, KY 41015-0249 • (606) 356-3272

Robert A. Brame, *Director*

11431 North Port Washington Rd., Suite 203

Mequon, WI 53092 • (414) 241-8742

Robert C. Vavrek, Jr., *Agronomist*

**Western Region:**

5610 W. Old Stump Dr. N.W.

Gig Harbor, WA 98332 • (206) 858-2266

Larry W. Gilhuly, *Director*

22792 Centre Dr., Suite 290

Lake Forest, CA 92630 • (714) 457-9464

Patrick J. Gross, *Agronomist*

Michael T. Huck, *Agronomist*

**Turfgrass Information File (TGIF) • (800) 446-8443**

# USGA® Green Section RECORD

**1 Maintenance on a Shoestring**  
*by Patrick M. O'Brien*

**5 Avoiding the Hazards of  
Golf Course Renovation**  
*by George B. Manuel*

**8 The Red-Cockaded Woodpecker:  
An Endangered Species in Golf Country**  
*by Dr. J. H. Carter III and Bradley G. Kocher*

**10 What's Worth Worrying About in Life?**  
*by Dr. Michael P. Kenna*

**13 Fairway Aerification Around the Clock**  
*by Bob Weaver*

**15 On Course With Nature  
"Ego-System" Management**  
*by Ronald G. Dodson*

**16 News Notes for Summer**

**17 All Things Considered  
It's Still Just a Game**  
*by James Francis Moore*

**Back  
Cover Turf Twisters**



*Cover Photo:*

*These combination lightweight  
mower/fertilizer spreaders provided  
everyday playing conditions in days  
gone by. Lothianburn Golf Club,  
Edinburgh, Scotland.*

©1995 by United States Golf Association®. Permission to reproduce articles or material in the USGA GREEN SECTION RECORD is granted to newspapers, periodicals, and educational institutions (unless specifically noted otherwise). Credit must be given to the author, the article's title, USGA GREEN SECTION RECORD, and the issue's date. Copyright protection must be afforded. To reprint material in other media, written permission should be obtained from the USGA. In any case, neither articles nor other material may be copied or used for any advertising, promotion, or commercial purposes.

GREEN SECTION RECORD (ISSN 0041-5502) is published six times a year in January, March, May, July, September, and November by the UNITED STATES GOLF ASSOCIATION®, Golf House, Far Hills, NJ 07931. Postmaster: Send address changes to the USGA Green Section Record, P.O. Box 708, Golf House, Far Hills, NJ 07931-0708. Subscriptions, articles, photographs, and correspondence relevant to published material should be addressed to: United States Golf Association Green Section, Golf House, Far Hills, NJ 07931. Second-class postage paid at Far Hills, NJ, and other locations. Office of Publication, Golf House, Far Hills, NJ 07931. **Subscriptions \$15 a year, Canada/Mexico \$18 a year, and international \$30 a year (air mail).**