

**USGA**<sup>®</sup>



**EDITOR:**

James T. Snow

**MANAGING EDITOR:**

Robert Sommers

**ART EDITOR:**

Diane Chrenko Becker

Vol. 28, No. 5

SEPTEMBER/OCTOBER 1990

**GREEN SECTION COMMITTEE CHAIRMAN:**

Raymond B. Anderson

1506 Park Avenue

River Forest, Ill. 60305

**NATIONAL DIRECTOR:**

James T. Snow

United States Golf Association, Golf House

P.O. Box 708, Far Hills, NJ 07931 • (201) 234-2300

**GREEN SECTION AGRONOMISTS AND OFFICES:**

**Northeastern Region:**

United States Golf Association, Golf House

P.O. Box 708, Far Hills, N.J. 07931 • (201) 234-2300

David Oatis, *Director*

Tim P. Moraghan, *Agronomist*

James E. Skorulski, *Agronomist*

45 Haven Avenue

Willimantic, Conn. 06226 • (203) 456-4537

James Connolly, *Agronomist*

**Mid-Atlantic Region:**

P.O. Box 2105

West Chester, Pa. 19380 • (215) 696-4747

Stanley J. Zontek, *Director*

Bob Brame, *Agronomist*

**Southeastern Region:**

P.O. Box 95

Griffin, Ga. 30224-0095 • (404) 229-8125

Patrick M. O'Brien, *Director*

**State of Florida:**

8908 S.E. Colony Street

Hobe Sound, Fla. 33455 • (407) 546-2620

John H. Foy, *Director*

Chuck Gast, *Agronomist*

**Great Lakes Region:**

11431 North Port Washington Rd., Suite 203

Mequon, Wis. 53092 • (414) 241-8742

James M. Latham, Jr., *Director*

Robert C. Vavrek, *Agronomist*

**Mid-Continent Region:**

300 Sharron Drive

Waco, Texas 76710 • (817) 776-0765

James F. Moore, *Director*

George B. Manuel, *Agronomist*

**Western Region:**

P.O. Box 3375

Tustin, Calif. 92681 • (714) 544-4411

Larry W. Gilhuly, *Director*

Paul Vermeulen, *Agronomist*

**Green Section Research:**

P.O. Box 2227

Stillwater, Okla. 74076 • (405) 743-3900

Dr. Michael P. Kenna, *Director*

# Green Section RECORD

**1** **A Different Look at IPM:  
Integrated Pond Management**  
*by James Connolly*

**7** **A USGA-Sponsored Research Project  
Comparing Hollow- and Solid-Tine Cultivation**  
*by J. A. Murphy and P. E. Rieke*

**10** **Liability on the Golf Course**  
*by J. Michael Veron*

**15** **Ten Timely Tips to Avoid Tree Troubles**  
*by Paul Vermeulen*

**17** **All Things Considered  
What's Your Batting Average?  
An Opinion on Unreasonable Expectations**  
*by Stanley J. Zontek*

Back  
Cover **Turf Twisters**



*Cover Photo:*

*A well-maintained pond to the right of the 12th green at Medinah C.C., site of the 1990 U.S. Open.*

©1990 by United States Golf Association®. Permission to reproduce articles or material in the USGA GREEN SECTION RECORD is granted to publishers of newspapers and periodicals (unless specifically noted otherwise), provided credit is given the USGA and copyright protection is afforded. To reprint material in other media, written permission must 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, N.J. 07931. Subscriptions and address changes should be sent to the above address. Articles, photographs, and correspondence relevant to published material should be addressed to: United States Golf Association Green Section, Golf House, Far Hills, N.J. 07931. Second class postage paid at Far Hills, N.J., and other locations. Office of Publication, Golf House, Far Hills, N.J. 07931. Subscriptions \$9 a year. Foreign subscriptions \$12 a year.