

**USGA PRESIDENT:** 



Vol. 31, No. 5 SEPTEMBER/ **OCTOBER 1993** 

# **USGA**<sup>®</sup> Green Section RECORD

**Overseeding: It Is A Challenge!** 

A USGA-Sponsored Research Project

by Chuck Gast

1

Stuart F. Bloch		
Raymond B. And	ON COMMITTEE CHAI derson le, River Forest, IL 60305	RMAN:
EXECUTIVE I David B. Fay	DIRECTOR	
EDITOR: James T. Snow	ASSISTANT EDITOR: Dr. Kimberly S. Erusha	
DIRECTOR OF Mark Carlson	COMMUNICATIONS:	
P.O. Box 708, Far Hi James T. Snow, Natio Dr. Kimberly S. Erus	ssociation, Golf House lls, NJ 07931 • (908) 234-2300	ations
	vater, OK 74076 • (405) 743-3900 a, Director, Green Section Researc	
GREEN SECTION	AGRONOMISTS AND OFFICE	S:
	ssociation, Golf House Ils, NJ 07931 • (908) 234-2300 <i>ctor</i>	
186 Prospect Street, James E. Connolly, A	Willimantic, CT 06226 • (203) 45 gronomist	6-4537
Mid-Atlantic Regio P.O. Box 2105, West Stanley J. Zontek, D Robert A. Brame, Ag	Chester, PA 19380 • (215) 696-47 irector	47

# Keith A. Happ, Agronomist Southeastern Region:

P.O. Box 95, Griffin, GA 30224-0095 • (404) 229-8125 Patrick M. O'Brien, Director

## Florida Region:

P.O. Box 1087, Hobe Sound, FL 33475-1087 . (407) 546-2620 John H. Foy, Director Chuck Gast, Agronomist

#### **Great Lakes Region:**

11431 North Port Washington Rd., Suite 203 Mequon, WI 53092 • (414) 241-8742 James M. Latham, Director Robert C. Vavrek, Jr., Agronomist

## **Mid-Continent Region:**

720 Wooded Crest, Waco, TX 76712 • (817) 776-0765 James F. Moore, Director George B. Manuel, Agronomist

## Western Region:

3704 125th Street N.W. Gig Harbor, WA 98332 • (206) 858-2266 Larry W. Gilhuly, Director

22792 Centre Drive, Suite 290 Lake Forest, CA 92630 • (714) 457-9464 Paul H. Vermeulen, Agronomist Patrick J. Gross, Agronomist

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

Becker

6	Developments in Canada Goose Repellents by John Cummings	
8	What Do Club Managers Need to Know About Golf Course Management? by Patrick Gross	
11	Golf Course Construction: Grow-In Philosophies by Terry Buchen	
15	Does Construction Relate to Maintenance Costs? Don't Underestimate Irrigation, Drainage, and Soil Systems by Ricky J. Kroeger	
18	On Course With Nature Soil Bioengineering: A Natural Approach to Stream Bank Stabilization by Nancy P. Sadlon	
20	Fall News Notes	
21	All Things Considered Treat the Symptom or Correct the Cause?	

21	Treat the Symptom or Correct the Cause? by James Frances Moore

Back **Turf Twisters** Cover



# Cover Photo:

To prevent seed from tracking off the putting surface, the crew at Martin Downs Country Club park the utility vehicle next to the green and never walk off the greens during seeding operations.

©1993 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, 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 \$12 a year. Foreign subscriptions \$15 a year (surface mail) or \$24 a year (air mail).