

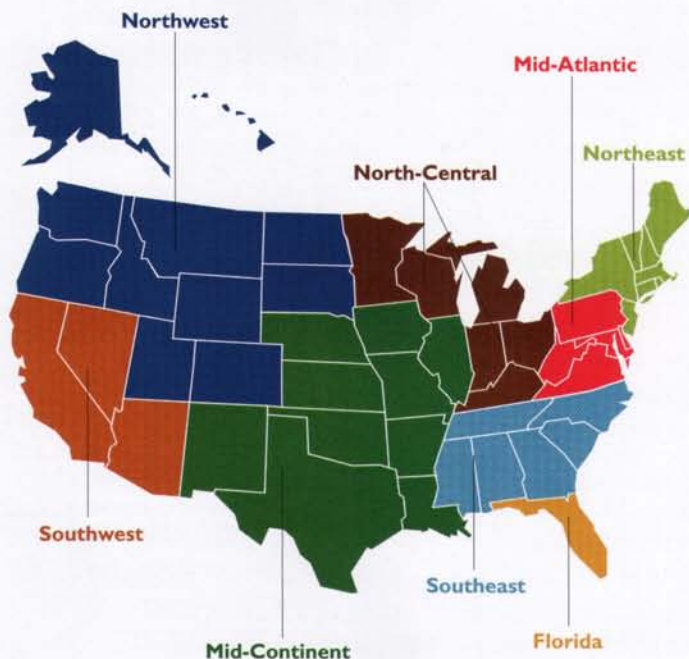


**GREEN SECTION
NATIONAL OFFICES**

United States Golf Association, Golf House
P.O. Box 708
Far Hills, NJ 07931
(908) 234-2300 Fax (908) 781-1736
James T. Snow, *National Director*
jsnow@usga.org
Kimberly S. Erusha, Ph.D.,
Director of Education
kerusha@usga.org

Green Section Research
P.O. Box 2227
Stillwater, OK 74076
(405) 743-3900 Fax (405) 743-3910
Michael P. Kenna, Ph.D., *Director*
mkenna@usga.org
1032 Rogers Place
Lawrence, KS 66049
785-832-2300
Jeff Nus, Ph.D., *Manager*
jnus@usga.org

Construction Education Program
770 Sam Bass Road
McGregor, TX 76657
(254) 848-2202 Fax (254) 848-2606
James F. Moore, *Director*
jmoore@usga.org



REGIONAL OFFICES

●Northeast Region
David A. Oatis, *Director*
doatis@usga.org
Adam C. Moeller, *Agronomist*
amoeller@usga.org
P.O. Box 4717
Easton, PA 18043
(610) 515-1660 Fax (610) 515-1663
James E. Skorulski, *Senior Agronomist*
jskorulski@usga.org
1500 North Main Street
Palmer, MA 01069
(413) 283-2237 Fax (413) 283-7741

●Mid-Atlantic Region
Stanley J. Zontek, *Director*
szontek@usga.org
Darin S. Bevard, *Senior Agronomist*
dbevard@usga.org
485 Baltimore Pike, Suite 203
Glen Mills, PA 19342
(610) 558-9066 Fax (610) 558-1135
Keith A. Happ, *Senior Agronomist*
khapp@usga.org
Manor Oak One, Suite 410,
1910 Cochran Road
Pittsburgh, PA 15220
(412) 341-5922 Fax (412) 341-5954

●Southeast Region
Patrick M. O'Brien, *Director*
patobrien@usga.org
P.O. Box 95
Griffin, GA 30224-0095
(770) 229-8125 Fax (770) 229-5974
Christopher E. Hartwiger,
Senior Agronomist
chartwiger@usga.org
1097 Highlands Drive
Birmingham, AL 35244
(205) 444-5079 Fax (205) 444-9561

●Florida Region
John H. Foy, *Director*
jfoya@usga.org
P.O. Box 1087
Hobe Sound, FL 33475-1087
(772) 546-2620 Fax (772) 546-4653
Todd Lowe, *Agronomist*
tlowe@usga.org
127 Naomi Place
Rotonda West, FL 33947
(941) 828-2625 Fax (941) 828-2629

●Mid-Continent Region
Charles "Bud" White, *Director*
budwhite@usga.org
2601 Green Oak Drive
Carrollton, TX 75010
(972) 662-1138 Fax (972) 662-1168
Ty A. McClellan, *Agronomist*
tmcclellan@usga.org
165 LeGrande Boulevard
Aurora, IL 60506
(630) 340-5853 Fax (630) 340-5863

●North-Central Region
Robert A. Brame, *Director*
bobbrame@usga.org
P.O. Box 15249
Covington, KY 41015-0249
(859) 356-3272 Fax (859) 356-1847
Robert C. Vavrek, Jr., *Senior Agronomist*
rvavrek@usga.org
P.O. Box 5069
Elm Grove, WI 53122
(262) 797-8743 Fax (262) 797-8838

●Northwest Region
Larry W. Gilhuly, *Director*
lgilhuly@usga.org
5610 Old Stump Drive N.W.,
Gig Harbor, WA 98332
(253) 858-2266 Fax (253) 857-6698
Fred E. "Derf" Soller, Jr., *Agronomist*
dsoller@usga.org
P.O. Box 4752
Grand Junction, CO 81502
(970) 314-7670 Fax (970) 314-2583

●Southwest Region
Patrick J. Gross, *Director*
pgross@usga.org
505 North Tustin Avenue, Suite 121
Santa Ana, CA 92705
(714) 542-5766 Fax (714) 542-5777
Brian S. Whitlark, *Agronomist*
bwhitlark@usga.org
3677 E. Turnberry Court
Gilbert, AZ 85298
Ph/Fax (480) 668-3368

©2009 by United States Golf Association®
Subscriptions \$18 a year, Canada/Mexico \$21 a year, and international \$33 a year (air mail).
Subscriptions, articles, photographs, and correspondence relevant to published material should be addressed to: United States Golf Association, Green Section, Golf House, P.O. Box 708, Far Hills, NJ 07931.

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 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: Address service requested — USGA Green Section Record, P.O. Box 708, Golf House, Far Hills, NJ 07931-0708.
Periodicals postage paid at Far Hills, NJ, and other locations. Office of Publication, Golf House, Far Hills, NJ 07931.
♻️ Printed on recycled paper