VOL. 9, NO. 5 SEPTEMBER, 1971

Cart Paths and Car Roads Can Be Turf Savers by James B. Moncrief ... 1

Certification for GCSAA Members by Clifford A. Wagoner .............. 6

The Irrigation System and the Use of Soluble Fertilizers
by Maj. Gen. John L. Winston and John R. Hardin ................... 8

Golf Shoe Spikes — Who Needs Them? by Wendell E. Wood ............. 11

Turf Twisterers ............................................................... Back Cover

Published six times a year in January, March, May, July, September and November by the UNITED STATES GOLF ASSOCIATION, 40 EAST 38th ST., NEW YORK, N.Y. 10016. Subscription: $2 a year. Single copies: 35c. 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, P.O. Box 567, Garden Grove, Calif 92642. Second class postage paid at New York, N.Y. and other locations. Office of Publication: 40 East 38th Street, New York, N.Y. 10016.

Editor: William H. Bengeyfield Managing Editor: Robert Sommers
Art Editor: Miss Janet Seagle

Green Section Committee Chairman: Henry H. Russell, P.O. Box 697, Miami, Fla. 33157

Green Section Agronomists and Offices

EASTERN REGION
P.O. Box 1237
Highland Park, N. J. 08904
Alexander M. Radko, Director, Eastern Region
and National Research Director
William G. Buchanan, Eastern Agronomist
Stanley J. Zontek, Eastern Agronomist
(201) 572-0440

SOUTHERN REGION
P.O. Box 4213
Campus Station, Athens, Ga. 30601
James B. Moncrief, Director, Southern Region
(404) 875-3714

MID-CONTINENT REGION
P.O. Box 592, Crystal Lake, Ill. 60014
F. Lee Record, Director, Mid-Continent Region
Carl Schwartzkopf, Mid-Continent Agronomist
(815) 459-3731

MID-ATLANTIC REGION
P.O. Box 5563
Barricks Road Station, Charlottesville, Va. 22903
Holman M. Griffin, Mid-Atlantic Director
(703) 296-5363

WESTERN REGION
P.O. Box 567
Garden Grove, Calif. 92642
William H. Bengeyfield, Director, Western Region
and Publications Editor
(714) 638-0962