

THE BULLETIN

of the

UNITED STATES GOLF ASSOCIATION GREEN SECTION

Vol. 11

Washington, D. C., September, 1931

No. 9

Contents

	Page
Russell A. Oakley	175
Some Problems of Southern Golf Courses	176
Bermuda Turf and Sand Greens at Pinehurst, N. C. By Frank Maples	182
Turf Maintenance at Wappoo Links, Charleston, S. C. By J. Keitt Hane, Jr. .	184

EXECUTIVE COMMITTEE

GANSON DEPEW, <i>Chairman</i> , Marine Trust Bldg., Buffalo, N. Y.	WALTER S. HARBAN, Washington, D. C.
H. KENDALL READ, <i>Vice-Chairman</i> , Philadel- phia, Pa.	K. F. KELLERMAN, Washington, D. C.
ROBERT F. ARNOTT, Upper Montclair, N. J.	CORNELIUS S. LEE, New York, N. Y.
ROBERT M. CUTTING, Chicago, Ill.	JOHN MONTEITH, JR., Washington, D. C.
	WYNANT D. VANDERPOOL, Newark, N. J.
	HARVEY L. WESTOVER, Washington, D. C.

RESEARCH COMMITTEE

UNITED STATES DEPARTMENT OF AGRICULTURE

K. F. KELLERMAN, *Chairman*: Associate Chief, Bureau of Plant Industry.
F. H. HILLMAN, *Botanist*, Seed Investigations.
A. J. PIETERS, *Principal Agronomist in Charge*, Forage Crops and Diseases.
OSWALD SCHREINER, *Principal Biochemist in Charge*, Soil Fertility.
W. R. WALTON, *Senior Entomologist*, Cereal and Forage Insects.
HARVEY L. WESTOVER, *Senior Agronomist*, Forage Crops and Diseases.

UNITED STATES GOLF ASSOCIATION GREEN SECTION

JOHN MONTEITH, JR.
KENNETH WELTON

ADVISORY COMMITTEE

DOUGLAS CALL, Richmond, Va.	ALEX PIRIE, Fort Sheridan, Ill.
N. S. CAMPBELL, Providence, R. I.	WILLIAM J. ROCKEFELLER, Toledo, Ohio.
WILLIAM S. FOWNES, JR., Pittsburgh, Pa.	GEORGE V. ROTAN, Houston, Tex.
A. J. GOETZ, Webster Groves, Mo.	GEORGE SARGENT, Columbus, Ohio.
WILLIAM HARRIS, Cincinnati, Ohio.	JOHN SHANAHAN, West Newton, Mass.
J. McRAE HARTGERING, Detroit, Mich.	SHERRILL SHERMAN, Utica, N. Y.
FREDERIC C. HOOD, Marion, Mass.	FREDERICK SNARE, Havana, Cuba.
NORMAN MACBETH, Los Angeles, Calif.	CHARLES E. VAN NEST, Minneapolis, Minn.
JOHN MORLEY, Youngstown, Ohio.	ALAN D. WILSON, Philadelphia, Pa.
GUY M. PETERS, Chicago, Ill.	M. H. WILSON, JR., Cleveland, Ohio.

THE BULLETIN is published monthly by the United States Golf Association Green Section, at Room 7207, Building F, Constitution Ave. and 7th St., Washington, D. C.

Address all MAIL to P. O. Box 313, Pennsylvania Avenue Station, Washington, D. C.

Send TELEGRAMS to Room 7207, Building F, Constitution Ave. and 7th St. N. W., Washington, D. C.

Subscription Price: In United States of America, Mexico, and West Indies, \$4.00 per year; in all other countries, \$5.00 per year.

Entered as second-class matter, April 21, 1926, at the post office at Washington, D. C., under the Act of March 3, 1879. Copyrighted, 1931, by the United States Golf Association Green Section.