WEEDS

JOURNAL OF THE WEED SOCIETY OF AMERICA

CONTENTS

	Page
Effect of Temperature, Carbon Dioxide and Oxygen Levels on Quackgrass Rhizome Buds. R. E. Meyer and K. P. Buchholtz	1
Effect of Chemicals on Buds of Quackgrass Rhizomes. R. E. Meyer and K. P. Buchholtz	4
Foxicity of Benzoic Acid Herbicides to Cotton and Soybeans. A. F. Wiese and A. G. Martin	7
Herbicidal Control of Tall Larkspur. Paul J. Torell and Robert H. Haas Control of Yellow Toadflax by Grass Competition Plus 2,4-D. A. C. Carder Herbicidal Properties and Persistence in Soils of s-Triazines. T. J. Sheets and	10 13
W. C. Shaw	15
Evaluating Herbicides Against Aquatic Weeds. Robert D. Blackburn	21
Control of Woollyleaf Franseria with 2,4-D. Paul F. Sand and M. K. McCarty	25
The Mode of Action of Simazine in Barley. W. Sherrill Allen and Rupert D. Palmer	27
influence of Dalapon on Maturity, Yield, and Seed and Fiber Properties of	41
Cotton. Chester L. Foy and John H. Miller	31
The Interaction of Phosphorus with the Phytotoxicity of Soil Applied Herbicides. R. P. Upchurch, G. R. Ledbetter, and F. L. Selman	36
easonal Variation in Absorption and Translocation of 2,4,5-Trichlorophenoxy-acetic Acid and Respiration Rates in Blackjack Oak. Arlo V. Dalrymple and Eddie Basler	41
The Effect of Rainfall and Soil Type on the Disappearance of 2,3,6-TBA.	
O. C. Burnside, G. A. Wicks, and C. R. Fenster	45
The Effect of Time of Seeding on Growth and Development of Rough Pigweed and Yellow Foxtail. Jonas Vengris	48
Variations in Toxicity to Bluegill Sunfish of Phenoxy Herbicides. Janice S. Hughes and James T. Davis	50
Herbicides for Gladiolus. D. S. Burgis and W. E. Waters	53
nhibition of Photochemical Activity of Isolated Chloroplasts by Acylanilides. D. E. Moreland and K. L. Hill	55
Development of Barnyardgrass Seedlings and Their Response to EPTC. J. H. Dawson	60
nfluence of Droplet Size on Effectiveness of Low-Volume Herbicidal Sprays. W. B. Ennis, Jr., and Ralph E. Williamson	67
Effect of Overhead and Furrow Irrigation on Performance of Preemergence Herbicides. Robert H. Menges	72
News Notes	77
ustaining Members	79

VOLUME 11

JANUARY 1963

NUMBER 1

WEEDS

Issued Quarterly by the Weed Society of America

- C. J. WILLARD, Editor, Department of Agronomy, The Ohio State University, 1827 Neil Ave., Columbus 10, Ohio
- F. W. SLIFE, Business Manager, Department of Agronomy, University of Illinois, Urbana, Illinois

EDITORIAL COMMITTEE

- A. S. Crafts, Department of Botany, University of California, Davis, California
- R. A. Peters, Department of Plant Science, University of Connecticut, Storrs, Connecticut
- W. C. ROBOCKER, Crops Research Division, ARS, USDA, State College of Washington, Pullman, Washington
- D. W. Staniforth, Department of Botany and Plant Pathology, Iowa State University, Ames, Iowa
- R. P. Upchurch, Department of Crop Science, North Carolina State College Raleigh, North Carolina

WEEDS is a quarterly journal published by the Weed Society of America. The subscription price is \$10.00 yearly for four issues; single copies \$2.50.

Address all communications regarding subscriptions, advertising, and reprints to F. W. Slife, Department of Agronomy, University of Illinois. All checks, money orders, and other remittances should be made payable to the Weed Society of America.

The editorial office is located at Department of Agronomy, The Ohio State University, 1827 Neil Avenue, Columbus 10, Ohio. Inquiries concerning manuscripts and other material for publication should be addressed to the editorial office.

Printing is by the W. F. Humphrey Press, Inc., Geneva, New York.

Entered as second-class matter at the post office at Urbana, Illinois with additional entry at Geneva, New York.