

WEED SCIENCE

JOURNAL OF THE WEED SCIENCE SOCIETY OF AMERICA



VOLUME 26

SEPTEMBER 1978

NUMBER 5

Page

— CONTENTS —

- 421 Some Factors Influencing Atrazine Activity on Yellow Nutsedge (*Cyperus esculentus*). R. K. Nishimoto, C. P. Yip, and R. D. Sweet
- 425 Germination of Seed of Dwarf Spikerush (*Eleocharis coloradoensis*). R. R. Yeo and R. J. Dow
- 432 Influence of Fluridone on Chlorophyll Content of Wheat (*Triticum aestivum*) and Corn (*Zea mays*). R. M. Devlin, C. N. Saras, M. J. Kisiel, and A. S. Kostusiak
- 434 Absorption and Translocation of Mefluidide by Soybean (*Glycine max*), Common Cocklebur (*Xanthium pensylvanicum*), and Giant Foxtail (*Setaria faberi*). J. R. Bloomberg and L. M. Wax
- 440 Enhancement of Chloroplast Photooxidations with Photosynthesis-Inhibiting Herbicides and Protection with NADH or NADPH. C. N. Giannopolitis and G. S. Ayers
- 444 Control of an Oak (*Quercus*) Complex with Herbicide Granules. R. E. Meyer, R. W. Bovey, and J. R. Baur
- 454 Tolerance of Soybeans (*Glycine max*) and Grain Sorghum (*Sorghum bicolor*) to Fluometuron Residue. A. W. Jackson, L. S. Jeffery, and T. C. McCutchen
- 459 Responses of Six Morningglory (*Ipomoea*) Species to Bentazon. M. R. McClelland, L. R. Oliver, W. D. Mathis, and R. E. Frans
- 465 Persistence of Several Dinitroaniline Herbicides as Affected by Soil Moisture. K. E. Savage
- 471 Dicamba Use and Injury on Soybeans (*Glycine max*) in South Dakota. D. E. Auch and W. E. Arnold
- 476 Effect of Diluent Volume and Calcium on Glyphosate Phytotoxicity. C. L. Sandberg, W. F. Meggitt, and Donald Penner
- 480 Etiolated Growth of Range Grasses for an Indication of Tolerance to Atrazine. J. A. Young and R. A. Evans
- 484 Competition of Four Morningglory (*Ipomoea spp.*) Species with Cotton (*Gossypium hirsutum*). R. H. Crowley and G. A. Buchanan
- 488 Terbacil Phytotoxicity and Quackgrass (*Agropyron repens*) Control in Highbush Blueberries (*Vaccinium corymbosum*). C. C. Doughty
- 493 Response of Zoysia (*Zoysia spp.*) and Bermudagrass (*Cynodon dactylon*) Cultivars to Herbicide Treatments. B. J. Johnson
- 497 Weed Control During Establishment of Birdsfoot Trefoil (*Lotus corniculatus*) and Red Clover (*Trifolium pratense*) with EPTC and Dinoseb. D. L. Linscott and R. D. Hagin
- 502 Survival of Hydrilla (*Hydrilla verticillata*) Plants and Propagules after removal from the Aquatic Habitat. F. M. Basiouny, W. T. Haller, and L. A. Garrard
- 505 Triallate Vapor Pressure and Volatilization from Glass Surfaces. R. Grover, W. F. Spencer, W. J. Farmer, and T. D. Shoup
- 509 Factors Affecting Toxicity and Translocation of Glyphosate in Cotton (*Gossypium hirsutum*). G. D. Wills
- 513 Effects of Glyphosate on Transpiration. D. L. Shaner
- 516 Control of Quackgrass (*Agropyron repens*) in Highbush Blueberries (*Vaccinium corymbosum*) and Hybrid Rhododendron (*Rhododendron X*). G. F. Ryan and C. C. Doughty

WEESA6 26(5) 421–520 (1978)

WEED SCIENCE

Published six times a year by the Weed Science Society of America

L. L. Danielson, *Editor*

University of North Carolina at Charlotte
Department of Biology, UNCC Station, Charlotte, NC 28223

Associate Editors

A. P. Appleby, Agronomy and Crop Science Department,
Oregon State University, Corvallis, OR 97331

D. E. Bayer, Botany Department, University of California, Davis, CA 95616

R. H. Hodgson, USDA, Metabolism and Radiation Laboratory,
State University Station, Fargo, ND 58102

D. L. Klingman, USDA, Beltsville Agricultural Research Center, Beltsville, MD 20705

E. E. Schweizer, USDA, Crops Research Laboratory,
Colorado State University, Fort Collins, CO 80523

G. D. Wills, Delta Branch Experiment Station, Stoneville, MS 38776

Editorial Committee

J. L. Anderson
W. L. Barrentine
M. A. Cole
W. B. Duke
A. E. Hiltbold

B. J. Johnson
T. N. Jordan
W. O. Lee
C. G. McWhorter

R. E. Meyer
J. A. Norton
J. V. Parochetti
D. P. Penner

A. R. Putnam
D. N. Riemer
R. B. Taylorson
B. Truelove
W. H. Vanden Born

Officers of the Weed Science Society of America

P. W. Santelmann, President

J. R. Hay, President-Elect

W. D. Carpenter, Vice-President

D. E. Bayer, Secretary

J. L. Hilton, Editor-in-Chief

G. H. Bayer, Treasurer

C. J. Cruse, Executive Secretary

Weed Science (SECD 671320) is the official publication of the Weed Science Society of America, 113 North Neil Street, Champaign, IL 61820. It is published bi-monthly, one volume per year, six issues per year beginning in January.

Membership is \$15 per year, student affiliate membership \$7.50, which includes receipt of the *Weed Science*, *Weeds Today*, and *WSSA Newsletter*. Dues should be sent to WSSA, 113 North Neil Street, Champaign, IL 61820 not later than December 1 of each year. Membership in the society is on a calendar year basis only.

Subscriptions (institutions, libraries, etc.) are \$25 per year, one volume per year of six issues beginning January. New subscriptions and renewals begin with the first issue of the current volume and should be sent to WSSA, 113 North Neil Street, Champaign, IL 61820.

Change of address affecting the mailing list for members, students, and subscribers, inquiries about copies lost in the mail, requests for back issues, and all matters pertaining to the receipt of the Journal, membership, and subscription information should be sent to WSSA, 113 North Neil Street, Champaign, IL 61820. Claims for copies lost in the mails must be received within 30 days (90 days foreign) of the date of issue to insure replacement at no charge.

Manuscripts must be sent to the office of the Editor located in the Department of Biology, University of North Carolina at Charlotte, UNCC Station, Charlotte, NC 28223. Directions for contributors are published annually in the January issue of *Weed Science*.

Weed Science published by the Weed Science Society of America.

Second class postage paid at Champaign, IL and at additional mailing offices.

Copyright 1978 by the Weed Science Society of America. Printed in USA.

All rights reserved. Reproduction in part or whole prohibited.

Return POD form 3579 to WSSA, 113 North Neil Street, Champaign, IL 61820