

# WEED SCIENCE

JOURNAL OF THE WEED SCIENCE SOCIETY OF AMERICA



VOLUME 23

NOVEMBER 1975

NUMBER 6

Page

— CONTENTS —

- 441 Control of Winter Annual Weeds in White Clover Raised for Seed. W.O. Lee
- 445 Cytokinin Effects Induced in Purple Nutsedge by Perfluidone. Leo E. Bendixen
- 448 Uptake, Distribution, and Degradation of Simazine by Black Walnut and Yellowpoplar Seedlings. J.R. Wichman and W.R. Byrnes
- 454 Napropamide Adsorption, Desorption, and Movement in Soils. Chu-Huang Wu, Normie Buehring, J.M. Davidson, and P.W. Santelmann
- 458 Control of Canada Thistle and Field Bindweed in Asparagus. A.G. Ogg, Jr.
- 462 Effects of Herbicide Treatments on the Establishment of 'Tifway' Bermudagrass. B.J. Johnson
- 465 Control of Green Sagewort in the Nebraska Sandhills. L.A. Morrow and M.K. McCarty
- 470 Triallate Granule Spacing Effect on Oat. R. Ashford
- 473 Response of Weeds to Soil pH. G.A. Buchanan, C.S. Hoveland, and M.C. Harris
- 478 Cycloate and Phenmedipham as Complementary Treatments in Sugarbeets. J.H. Dawson
- 486 Dissemination of Weed Seeds by Irrigation Water. A.D. Kelley and V.F. Bruns
- 494 Sorghum Growth as Affected by Annual Applications of Atrazine. O.C. Burnside and R.S. Moomaw
- 499 Phytotoxic Action of Desmedipham: Influence of Temperature and Light Intensity. Gabor Bethlenfalvai and R.F. Norris
- 504 Influence of Climate and Additives on Bentazon. John D. Nalewaja, Jerzy Pudelko, and K.A. Adamczewski
- 508 Comparison of Different Soil Leaching Techniques with Four Herbicides. Chu-Huang Wu and P.W. Santelmann
- 512 Effect of Plant Residue on Herbicide Performance in No-Tillage Corn. Donald C. Erbach and Walter G. Lovely
- 516 Differential Intraspecific Responses of Soybean Cultivars to Bentazon. R.M. Hayes and L.M. Wax
- 522 Influence of Soil Moisture on Tolerance of Corn to Cyanazine. A.D. Kern, W.F. Meggitt, and Donald Penner
- 525 Wild Oat Control in Kentucky Bluegrass and Perennial Ryegrass. W.O. Lee
- 529 A Method for Determining the Volatility of Herbicides. R. Grover
- 533 A Rainfall Simulator for Pesticide Leaching Studies. F.E. Brockman, W.B. Duke, and J.F. Hunt
- 536 Minutes of Business Meeting, Weed Science Society of America, February 4, 1975
- 537 Major Actions of the Board of Directors, February 3, 1975
- 538 Major Actions of the Board of Directors, February 6, 1975
- 538 Officers, and Places and Dates of Meetings of the Weed Science Society of America and the Member Weed Organizations, 1975
- 539 Member Weed Organizations, Officers, and Dates and Places of Next Meetings
- 540 Major Actions of the Executive Committee
- 541 Membership List, Weed Science Society of America, 1975
- 560 Sustaining Members, Weed Science Society of America, 1975
- 561 Author Index to Volume 23, WEED SCIENCE
- 563 Subject Index to Volume 23, WEED SCIENCE

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

*D. E. Davis, Editor, Department of Botany and Microbiology  
Auburn University, Auburn, Alabama 36830*

*Associate Editors*

**K. C. Hamilton**, Department of Agronomy  
and Plant Genetics, University of Arizona,  
Tucson, AZ 85721

**J. L. Hilton**, Agricultural Environmental Qual-  
ity Institute, Agricultural Research Center,  
Beltsville, MD 20705

**R. H. Hodgson**, United States Department of  
Agriculture, Metabolism and Radiation  
Laboratory, State University Station, Far-  
go, ND 58102

**C. G. McWhorter**, United States Department  
of Agriculture, Agricultural Research Serv-  
ice, Southern Weed Science Laboratory,  
Stoneville, MS 38776

*Editorial Committee*

**R. N. Andersen**  
**J. L. Anderson**  
**D. E. Bayer**  
**R. E. Meyer**

**T. J. Monaco**  
**H. D. Skipper**  
**E. W. Stoller**  
**L. Thompson, Jr.**

**T. W. Waldrep**  
**G. D. Wills**  
**R. Y. Yih**

*Officers of the Weed Science Society of America*

**C. R. Swanson**, President  
**F. W. Slife**, President-Elect  
**C. L. Foy**, Vice President  
**G. R. Miller**, Secretary  
**T. J. Sheets**, Editor-in-Chief  
**W. D. Carpenter**, Treasurer  
**C. J. Cruse**, Executive Secretary

*Weed Science* is the official publication of the Weed Science Society of America, 113 N. Neil St., Champaign, IL 61820. It is published bi-monthly, one volume per year, six issues per year beginning in January.

Membership is \$20 per year, student affiliate membership \$10, which includes receipt of the *Weed Science*, *Weeds Today*, and *WSSA Newsletter*. Dues should be sent to WSSA, 113 N. Neil St., 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 N. Neil St., 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 N. Neil St., 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 Botany and Microbiology, Auburn University, Auburn, AL 36830. Directions for contributors are published annually in the January issue of *Weed Science*.

Publication page charge, approved by the officers and directors of WSSA, is \$30 per printed page for material published. To defray the charge to authors who are members of the society, an application for exemption should accompany the return of the galley proof stating that they are unable to pay the charge and that the institution or organization with which they are affiliated is also unable to honor the request for payment of this charge. Under such conditions consideration will be given for exemption.

*Weed Science* published by the Weed Science Society of America.  
Second class postage paid at Champaign, IL and at additional mailing office.  
Copyright 1975 by the Weed Science Society of America. Printed in the USA.  
All rights reserved. Reproduction in part or whole prohibited.

Return POD form 3579 to WSSA, 113 N. Neil St., Champaign, IL 61820