# WEED SCIENCE SOCIETY OF AMERICA



### **VOLUME 25**

### MARCH 1977 - CONTENTS ----

NUMBER 2

### Page 97

- Adsorption, Desorption, and Leaching of Nitrofen and Oxyfluorfen. Omosuyi Fadayomi and G.F. Warren
- 101 Toxicity of MSMA, Fluometuron, and Propanil to Soybeans. L.E. Bode and C.G. McWhorter
- 106 Competition of Prickly Sida with Cotton. G.A. Buchanan, R.H. Crowley, and R.D. McLaughlin
- 111 Uptake and Translocation of Nitrofen and Oxyfluorfen. Omosuyi Fadayomi and G.F. Warren
- 115 Effect of Atrazine on Soybean Tolerance to Metribuzin. James S. Ladlie, William F. Meggitt, and Donald Penner
- 122 Sinking Leaf-Disk Test for Potato Variety Herbicide Tolerance. S.W. Gawronski, R.H. Callihan, and J.J. Pavek
- 128 Ecological Effects of Barnyardgrass on Soybeans in a Greenhouse. M.A. Maun
- 132 Response of Cotton to Cultivation. G.A. Buchanan and A.E. Hiltbold
- 135 Weed Control in Soybeans with Glyphosate Applied in the Recirculating Sprayer. C.G. McWhorter
- 142 Influence of GA and SADH on Naptalam Uptake by Wheat and Soybean Seedlings. Robert M. Devlin and Stanislaw J. Karczmarczyk
- 144 News Notes
- 145 Winter Annual Weed Control in Dormant Bermudagrass Turf. B.J. Johnson
- 151 Competition of Spurred Anoda, Velvetleaf, Prickly Sida, and Venice Mallow in Cotton. J.M. Chandler
- 159 Mobility of Dicamba, Picloram and 2,4-D in Soil Columns. R. Grover
- 163 Purple Moonflower: Emergence, Growth, Reproduction. J.M. Chandler, R.L. Munson, and C.E. Vaughan
- 168 Competition of Late-Emerging Weeds with Sugarbeets. J.H. Dawson
- 171 Biology of Sourgrass and Its Competition with Buffelgrass and Guineagrass. J.Y. Pyon, A.S. Whitney, and R.K. Nishimoto
- 175 Weed Control in Nursery Stock by Controlled Release of Alachlor. A.E. Smith and B.P. Verma
- 179 Some Factors Which Influence the Toxicity of UHF Energy to Weed Seeds. Robert P. Rice, Jr. and Alan R. Putnam
- 183 Sustaining Members, Weed Science Society of America, 1977
- 184 Sorption, Movement, and Dissipation of Tebuthiuron in Soils. S.S. Chang and J.F. Stritzke
- 188 Response of Two Adenostoma Species to Several Herbicides. S.R. Radosevich, W.L. Graves, and H.A. Agamalian
- 192 Erratum Notice
- 193 Soil Sample Variation and Herbicide Incorporation Uniformity. R.D. Wauchope, J.M. Chandler, and K.E. Savage

## WEED SCIENCE

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

L. L. Danielson, *Editor*, Room 324, Biology Department McEniry Earth-Life Science Building University of North Carolina at Charlotte, Charolette, NC 28223

### Associate Editors

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

- R. H. Hodgson, United States Department of Agriculture, Metabolism and Radiation Laboratory, State University Station, Fargo, ND 58102
- J. L. Hilton, Agricultural Environmental Quality Institute, Agricultural Research Center, Beltsville, MD 20705
- C. G. McWhorter, United States Department of Agriculture, Agricultural Research Service, Southern Weed Science Laboratory, Stoneville, MS 38776

#### Editorial Committee

R. N. Andersen J. L. Anderson W. L. Barrentine W. B. Duke R. E. Meyer E. E. Schweizer H. D. Skipper E. W. Stoller L. Thompson, Jr. Bryan Truelove G. D. Wills R. Y. Yih

Officers of the Weed Science Society of America

F. W. Slife, President C. L. Foy, President-Elect Paul W. Santelmann, 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*.

Weed Science published by the Weed Science Society of America. Second class postage paid at Champaign, IL and at additional mailing office. Copyright 1977 by the Weed Science Society of America. Printed in the USA. All right reserved. Reproduction in part or whole prohibited.

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