WEED SCIENCE SOCIETY OF AMERICA



VOLUME 22

NOVEMBER 1974

CONTENTS -

NUMBER 6

535	Dormancy Variations in Common Purslane Seeds. G.H. Egley
541	Discovery, Development, and Current Status of the Chloroacetamide Herbicides. Philip C. Hamm
546	Control of Wild Oats in Oats With Barban Plus Antidote. F.Y. Chang, G.R. Stephenson, G.W. Ander son, and J.D. Bandeen
549	Purple Nutsedge Control in Turfgrasses With S-21634. B.J. Johnson
552	Factors Affecting Miserotoxin Metabolism in Timber Milkvetch. Robert Parker and M.C. Williams
557	Effect of Cacodylic Acid and MSMA on Microbes in Forest Floor and Soil. W.B. Bollen, Logan A Norris, and Kathleen L. Stowers
563	Responses of Rice to Postemergence Treatments of Propanil. R.J. Smith, Jr.
568	A Portable Electric Sprayer for Small Plots. Spencer L. Duffy and Bernard A. Schneider
571	Influence of Soil Temperature and Moisture on Terbutryn Activity and Persistence. Chu-Huang Wu P.W. Santelmann, and J.M. Davidson
575	Metribuzin Effects on Seed Constituents of Soybean Varieties. W.S. Hardcastle, R.E. Wilkinson, and C.T. Young
<i>5</i> 78	MSMA and DSMA for Removing Grass Weeds From Grass-Legume Seedlings. E.J. Peters and S.A Lowance
584	UHF Electromagnetic Energy for Weed Control in Vegetables. R.M. Menges and J.R. Wayland
591	Effect of 2,4-D and Various Salts on Eurasian Watermilfoil. Ronald A. Stanley
595	Metabolism of ¹⁴ C-SAN-6706 and ¹⁴ C-Norflurazon in Cranberry Plants. Robert W. Yaklich, Stanislaw J. Karczmarczyk, and Robert M. Devlin
600	Common Cocklebur Competition in Soybeans. W.L. Barrentine
604	Seedling and Yield Response of Cucumber to Naptalam and Chloramben. A.W. Cole and T.N. Jordan
608	Foliar Abscission of Woody Plants With Combinations of Endothall and Ethephon. J.P. Sterrett, G.R Leather, W.E. Tozer, W.D. Foster, and D.T. Webb
615	The Use of Metribuzin for Weed Control in Tomato. John Fortino, Jr. and Walter E. Splittstoesser
620	Membership List, Weed Science Society of America, 1974
638	Author Index to Volume 22, WEED SCIENCE
640	Subject Index to Volume 22, WEED SCIENCE
644	Sustaining Members, Weed Science Society of America, 1974
645	News Notes

WEED SCIENCE

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

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

Associate Editors

- C. L. Foy, Department of Plant Pathology and Physiology, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061
- K. C. Hamilton, Department of Agronomy and Plant Genetics, University of Arizona, Tucson, AZ 85721
- J. L. Hilton, Agricultural Environmental Quality Institute, Agricultural Research Center, Beltsville, MD 20705
- T. J. Muzik, Department of Agronomy and Soils, Washington State University, Pullman, WA 99163

Editorial Committee

J. L. Anderson A. P. Appleby J. D. Banting D. E. Bayer A. S. Hamill R. H. Hodgson L. S. Jordan C. G. McWhorter R. E. Meyer T. J. Monaco

H. D. Skipper
E. H. Stobbe
E. W. Stoller
Lafayette Thompson, Jr.
T. W. Waldrep

Officers of the Weed Science Society of America

E. L. Knake, President
C. R. Swanson, President-Elect
A. P. Appleby, Vice President
R. D. Ilnicki, Secretary
T. J. Sheets, Editor
F. W. Slife, 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 Managing 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 \$45 per printed page for material published. Payment of this charge is not a condition for acceptance of a paper. 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 1974 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