

# WEEDS

JOURNAL OF THE WEED SOCIETY OF AMERICA

## CONTENTS

	<i>Page</i>
Vapor Losses of IPC and CIPC. J. V. Parochetti and G. F. Warren .....	281
The Effect of Grazing and Clipping on the Control of Wild Carrot. P. J. Harrison and H. M. Dale .....	285
Dissipation of Atrazine from Soil by Corn, Sorghum, and Johnsongrass. H. C. Sikka and D. E. Davis .....	289
Influence of Temperature and other Factors on Loss of CDEC from Soil Surfaces. R. B. Taylorson .....	294
Persistence of Dichlobenil in Cranberry Bogs. C. W. Miller, I. E. Demoranville, and A. J. Charig .....	296
Growth and Development of Barnyardgrass in Massachusetts. Jonas Vengris, A. E. Kacperska-Palacz, and R. B. Livingston .....	299
Aspects of Movement of 2,4,5-T in Blackjack Oak. Amir A. Badiei, Eddie Basler, and Paul W. Santelmann .....	302
Annual Weed Control in Seedling Grasses. C. L. Canode and W. C. Robocker .....	306
Influence of Irrigation and Formulation on Activity of NPA, Amiben, and DCPA. J. Cardenas and P. W. Santelmann .....	309
Life History of <i>Gypsophila paniculata</i> . A. L. Darwent and R. T. Coupland .....	313
Amiben Metabolism in Plants. I. Isolation and Identification of an N-glucosyl Complex. C. R. Swanson, R. E. Kadunce, R. H. Hodgson, and D. S. Frear .....	319
Amiben Metabolism in Plants. II. Physiological Factors in N-glucosyl Amiben Formation. C. R. Swanson, R. H. Hodgson, R. E. Kadunce, and H. R. Swanson .....	323
Brief Papers:	
A Germination Inhibitor in <i>Striga</i> Seeds. Cyril A. Kust .....	327
Effects of Maleic Hydrazide on the Synthesis of Protein and Metabolism of Amino Acids in Tea. P. K. Biswas, Oscar Hall, and B. D. Mayberry .....	329
Some Biochemical Aspects of the Mechanisms of Herbicidal Activity. Clanton C. Black, Jr. and Larry Myers .....	331
A Symposium:	
The Experiment Station's Role in Testing Herbicides. R. J. Aldrich .....	338
What Should be the Experiment Station's Role in Testing Herbicides. William R. Furtick .....	339
The Role of the University in Testing Herbicides. L. H. Hannah .....	342
Minutes of the Business Meeting, Weed Society of America, February, 1966 .....	345
Terminology Committee Report, Weed Society of America, February, 1966 .....	346
Other Standing Committee Reports, Weed Society of America, February, 1966 .....	387
Special Committee Reports, Weed Society of America, February, 1966 .....	389
Status of Research and Publications on Weed Losses and Costs, and Benefits of Weed Control. Report of Weed Losses Committee, Weed Society of America, February, 1966 .....	393
Officers, and Places and Dates of Meeting of the Weed Society of America and the Member Weed Conferences .....	396
Membership List .....	397
Sustaining Members .....	407
Author Index to Volume 14 .....	408
Subject Index to Volume 14 .....	410

VOLUME 14

OCTOBER 1966

NUMBER 4

# WEEDS

*Issued Quarterly by the Weed Society of America*

EARL G. RODGERS, *Editor*, Department of Agronomy, University of Florida,  
Gainesville, Florida 32601

FRED W. SLIFE, *Treasurer-Business Manager*, Department of Agronomy,  
University of Illinois, Urbana, Illinois 61803

## EDITORIAL COMMITTEE

W. R. BYRNES, Department of Forestry  
and Conservation, Purdue University,  
Lafayette, Indiana 47907

D. E. DAVIS, Department of Botany  
and Plant Pathology, Auburn University,  
Auburn, Alabama 36830

L. A. DERSCHIED, Department of  
Agronomy, South Dakota State University,  
Brookings, South Dakota  
57007

C. L. FOY, Department of Botany,  
University of California, Davis,  
California 95616

K. C. HAMILTON, Department of  
Agronomy, University of Arizona,  
Tucson, Arizona 85721

J. B. HANSON, Department of Agronomy,  
University of Illinois, Urbana,  
Illinois 61803

J. L. HILTON, Crops Research Division,  
ARS, USDA, Beltsville, Maryland 20705

R. D. ILNICKI, Department of Soils  
and Crops, Rutgers University, New  
Brunswick, New Jersey 08903

R. E. NYLUND, Department of Horticulture,  
University of Minnesota,  
St. Paul, Minnesota 55101

R. A. PETERS, Department of Plant  
Science, University of Connecticut,  
Storrs, Connecticut 06268

R. P. UPCHURCH, Monsanto Company  
V Building, 800 N. Lindbergh  
Blvd., St. Louis, Missouri 63166

A. D. WORSHAM, Department of Crop  
Science, North Carolina State University,  
Raleigh, North Carolina  
27607

WEEDS is a quarterly journal published by the Weed Society of America. The subscription price is \$12.00 yearly for four issues; single copies \$3.00.

Address all communications regarding subscriptions and reprints to F. W. Slife, Department of Agronomy, University of Illinois, Urbana, 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, University of Florida, Gainesville, Florida 32603. Inquiries concerning manuscripts and other materials for publication should be addressed to the editorial office.

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

To join the Weed Society of America, send remittance of \$10.00, payable to the Weed Society of America, to Dr. F. W. Slife, Department of Agronomy, University of Illinois, Urbana, Illinois. Give name, official position (if any), and complete address. Dues are for the calendar year only.

The Conference Members of the Weed Society of America (WSA) and the abbreviations by which they may be designated in its publications, are the following:

Western Weed Control Conference	WWCC
North Central Weed Control Conference	NCWCC
Northeastern Weed Control Conference	NEWCC
Southern Weed Conference	SWC
National Weed Committee of Canada	—

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