WEED TECHNOLOGY





WEED TECHNOLOGY

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

Jason K. Norsworthy, Editor

The Weed Science Society of America publishes original research and scholarship in the form of peer-reviewed articles in three international journals. Weed Science is focused on understanding "why" phenomena occur in agricultural crops. As such, it focuses on fundamental research directly related to all aspects of weed science in agricultural systems. Weed Technology focuses on understanding "how" weeds are managed. As such, it is focused on more applied aspects concerning the management of weeds in agricultural systems. Invasive Plant Science and Management is a broad-based journal that focuses not only on fundamental and applied research on invasive plant biology, ecology, management, and restoration of invaded non-crop areas, but also on the many other aspects relevant to invasive species, including educational activities, policy issues, and case study reports. Topics for Weed Technology include all aspects of weed management in agricultural, horticultural, ornamental, forestry, aquatic, turf, recreational, rights-of-ways, and other settings; weed all aspects of herbicides; herbicide resistant crops; biological weed control agents; new weed management techniques; impacts of weed competition with crops; vegetation management with plant growth regulators; weed surveys; weed-related grower surveys; education; and extension. Symposia papers and reviews are accepted. Consult the editor for additional information.

Associate Editors (Assignment Year)

Jason Bond, Stoneville, MS (2010) Kevin Bradley, Columbia, MO (2012) Barry Brecke, Jay, FL (2013) Peter Dittmar, Gainesville, FL (2016) Steve Fennimore, Salinas, CA (2004) Aaron Hager, Urbana, IL (2012) Prashant Jha, Ames, IA (2016) Amit Jhala, *Lincoln*, *NE* (2018)
David Johnson, *Des Moines*, *IA* (2019)
William Johnson, *West Lafayette*, *IN* (2007)
Vipan Kumar, *Hays*, *KS* (2020)
Drew Lyon, *Pullman*, *WA* (2018)
Patrick McCullough, *Griffin*, *GA* (2016)
Scott McElroy, *Auburn*, *AL* (2012)

Robert Nurse, Guelph, ON (2016)
Darren Robinson, Ridgetown, ON (2008)
Larry Steckel, Jackson, TN (2007)
Daniel Stephenson, Alexandria, LA (2013)
Mark VanGessel, Georgetown, DE (2013)
Michael Walsh, Crawley, Australia (2016)
Eric Webster, Baton Rouge, LA (2018)
R. Joseph Wuerffel, Vero Beach, FL (2020)

Tracy Candelaria, Managing Editor

Officers of the Weed Science Society of America

http://wssa.net/society/bod/

Weed Technology (ISSN 0890-037X) is published by the Weed Science Society of America, 12011 Tejon Street, Suite 700, Westminster, CO 80234. It is published bimonthly, one volume per year, six issues per year beginning in February.

Membership includes online access to *Weed Technology, Weed Science, Invasive Plant Science and Management,* and the online *WSSA Newsletter*. Dues should be sent to WSSA, 12011 Tejon Street, Suite 700, Westminster, CO 80234 no later than December 1 of each year. Membership in the society is on a calendar-year basis only.

New subscriptions and renewals begin with the first issue of the current volume. Please visit the *Weed Technology* subscription page at https://www.cambridge.org/core/journals/weed-technology/subscribe; Email: subscriptions_newyork@cambridge.org in USA, journals@cambridge.org outside USA.

Weed Technology publishes six times a year in February, April, June, August, October, and December. Annual institutional electronic subscription rates: US \$411.00; UK £286.00.

Please use Editorial Manager to access manuscript submissions (http://www.editorialmanager.com/wt). Authors are asked to pay \$85 for the first page and \$65 per page thereafter as a portion of the cost of publication, plus an additional processing charge of \$55 per manuscript if none of the authors are WSSA members. The Editor can make exceptions in advance when justified.

The Weed Science Society of America fully subscribes to the belief that progress in science depends upon the sharing of ideas, information, and materials among qualified investigators. Authors of papers published in *Weed Technology* are therefore encouraged, whenever practicable and when state and federal laws permit, to share genotypically unique propagative materials they might possess with other workers in that area who request such materials for the purpose of scientific research.

Weed Technology published by the Weed Science Society of America.
 Copyright 2020 by the Weed Science Society of America.
 All rights reserved. Reproduction in part or whole prohibited.

Cover

Inflorescence of praxelis (*Praxelis clematidea* R.M. King & H. Rob.), an emerging troublesome weed species in agricultural fields and natural areas in central Florida. This photo was taken in Apopka, FL from field experiments conducted to identify effective PRE and POST herbicides for controlling praxelis. Refer to the article by Khamare et al. in this issue. Photo credit: Annette Chandler.

WEED TECHNOLOGY

VOLUME 34 NOVEMBER-DECEMBER 2020 NUMBER 6

RESEARCH ARTICLES
PRE and POST control of <i>Praxelis clematidea</i> , an emerging weed in Florida nursery production Yuvraj Khamare, S. Christopher Marble, Nathan S. Boyd and Shawn T. Steed
Effect of cereal rye and canola on winter and summer annual weed emergence in corn Stephanie A. DeSimini, Kevin D. Gibson, Shalamar D. Armstrong, Marcelo Zimmer, Lucas O.R. Maia and William G. Johnson
Control of waterhemp (<i>Amaranthus tuberculatus</i>) regrowth after failed applications of glufosinate or fomesafen Jesse A. Haarmann, Bryan G. Young and William G. Johnson
Determination of optimum metam-potassium rate for weed, tomato, and pepper termination Kshitij Khatri and Nathan S. Boyd
Nitrogen fertilizer programs following rice exposure to a sub-lethal concentration of paraquat Benjamin H. Lawrence, Jason A. Bond, Bobby R. Golden, Thomas W. Allen, Daniel B. Reynolds and Taghi Bararpour
Response of acetyl-CoA carboxylase-resistant rice cultivars and advanced lines to florpyrauxifen-benzyl Tameka L. Sanders, Jason A. Bond, Benjamin H. Lawrence, Bobby R. Golden, Thomas W. Allen Jr., Adam Famoso and Taghi Bararpour
Rate response of select grass weeds to pinoxaden John M. Peppers, Clebson G. Gonçalves and J. Scott McElroy
Giant reed (Arundo donax) responses to herbicides in a greenhouse study Mingyang Liu, Andrew Hulting and Carol Mallory-Smith
Broadleaf weed control with abrasive grit during raspberry establishment Frank Forcella, Steven Poppe, Emily Tepe and Emily Hoover
Season-long weed control with sequential herbicide programs in California tree nut crops Caio A. C. G. Brunharo, Seth Watkins and Bradley D. Hanson
Flue-cured tobacco tolerance to S-metolachlor Andrew M. Clapp, Matthew C. Vann, Charles W. Cahoon Jr., David L. Jordan, Loren R. Fisher and Matthew D. Inman 843
Weed control and crop tolerance with S-metolachlor in seeded summer squash and cucumber Thierry E. Besançon, Maggie H. Wasacz and Baylee L. Carr
Weed-sensing technology modifies fallow control of rush skeletonweed (<i>Chondrilla juncea</i>) Jacob W. Fischer, Mark E. Thorne and Drew J. Lyon
Chemical control of suckers in hazelnut orchards of western Oregon Larissa Larocca de Souza and Marcelo L. Moretti
Tolerance of pintoi peanut to PRE and POST herbicides Logan J. Martin, José Luiz C.S. Dias, Brent A. Sellers, Jason A. Ferrell, Ramon G. Leon and João M.B. Vendramini 870
A holistic carrot production system for season-long weed management Jed B. Colquhoun, Richard A. Rittmeyer and Daniel J. Heider
Influence of glyphosate on corn hybrid tolerance to tolpyralate + atrazine Nicole M. Langdon, Nader Soltani, Alan J. Raeder, David C. Hooker, Darren E. Robinson and Peter H. Sikkema 882 Impacts of repeated glyphosate use on growth of orchard crops O. Adewale Osipitan, Bahar Yildiz-Kutman, Seth Watkins, Patrick H. Brown and Bradley D. Hanson
Phenology affects differentiation of crop and weed species using hyperspectral remote sensing Nicholas T. Basinger, Katherine M. Jennings, Erin L. Hestir, David W. Monks, David L. Jordan and Wesley J. Everman 897
• EDUCATION/EXTENSION
Weed control practices and awareness of herbicide resistance among cereal farmers of northern Greece Elisavet Toubou, Vassiliki Vindena, Christos A. Damalas and Spyridon D. Koutroubas
INTRIGUING WORLD OF WEEDS
Field hindwood (Convolvative aryoneis): "all tied up"