

## Table of Contents

### A SECTION

#### FEATURE

- 61A **Defining boundaries and conceptual frameworks for ecologically focused agricultural systems**

Ravi Teja Neelipally, Debasish Saha, and Sindhu Jagadamma

#### VIEWPOINT

- 66A **Artificial intelligence for assessing organic matter content and related soil properties**

Rattan Lal

### A SECTION Call for Papers

Are you working on cutting edge research in soil and water conservation? Does your work involve new tools, technologies, or materials that others should be aware of? Have you observed or been a part of conservation practices that are worth sharing with the journal audience?

If you answered “Yes” to any of these questions, you are invited to submit your article ideas for the A Section of the *Journal of Soil and Water Conservation*.

Your work could be published in one of the A Section topic areas: Conservation in Practice, Viewpoint, Ideas & Innovations, Conservation in Action, In the News, Feature, etc.

To submit your article ideas or for more information, contact acting editor Jody Thompson at [jody.thompson@swcs.org](mailto:jody.thompson@swcs.org).



**On the Cover**  
Saturated buffer in Story County, Iowa. NRCS/SWCS Conservation Media Library photo by Lynn Betts.



Printed on 100% post-consumer waste recycled paper with vegetable-based inks.

## RESEARCH SECTION

- 169** **Decompaction and organic amendments provide short-term improvements in soil health during urban, residential development**  
M.D. McDaniel, G.L. Thompson, and P. Sauer
- 180** **Estimating soil carbon change using the web-based Nutrient Tracking Tool (NTT) with APEX**  
D. Menefee, A. Saleh, and O. Gallego
- 191** **Water quality improvements in Grand Lake St. Marys watershed with the region's first saturated buffer**  
S.J. Jacquemin, M.C. Grunden, A. Clayton, and T.A. Dirksen
- 202** **Effect of biochar treatment on soil pH and cucumber fruit: A demonstration of the importance of biochar amendment on the tropical soils of Nigeria**  
E.O. Ayito, K. John, O.B. Iren, N.M. John, S. Mngadi, R. Moodley, and B. Heung
- ERRATUM**
- 211** **Erratum for Martinez et al., Leveraging ecological monitoring programs to collect soil and geomorphology data across the western United States**  
P. Martinez, J.R. Brehm, A.M. Nafus, A. Laurence-Traynor, S.W. Salley, and S.E. McCord

JOURNAL OF SOIL AND WATER  
**CONSERVATION**  
**o n l i n e**

The *Journal of Soil and Water Conservation* is online.

### AUTHORS

Please submit manuscripts using the online manuscript review system.

### MORE INFORMATION

Go to [www.jswconline.org](http://www.jswconline.org)