

# 2012–2013 Publications

American Society of Agronomy  
Crop Science Society of America  
Soil Science Society of America



# 2013 Publication News

We are eager to share our publication updates with you! There have been some extraordinary changes in publishing over the past few years including changes in technology, how content is discovered and delivered, and policies on intellectual property as well as increased competition among publishers and societies for the best papers. The Societies and ACSESS are motivated by the opportunities to be a leader in all aspects of publishing.

Most notably the Societies have made five changes:

- Introducing the ACSESS Digital Library
- Changes to publishing page charges
- Electronic delivery of content
- Open access/early access
- Journal name change

## ACSESS Digital Library

The ACSESS Digital Library is a complete collection of content published by the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America. The Digital Library makes it possible to browse, research, comment on, and share all of our published literature in one convenient place.

The full-text database is an all-inclusive compilation of journals, magazines, books, conference presentations, certification documents, videos, and data sets in the Agronomic, Soil, Crop, and Environmental Science files.

The ACSESS Digital Library is a vital component in serving our mission and our membership by providing innovative, valuable resources for the betterment of our community, and our world.

## Changes to Publishing Page Charges

The Societies are considering changes to a publishing page charge policy. Previously, authors of accepted papers to the Societies' journals were required to pay a fee to help offset the cost of publication of that paper. Those fees were usually included in the funds provided by the granting agency. However, with the increase in authors from China, India, Brazil, the Middle East, and elsewhere outside the USA where funds for publishing are not available, many good authors have had to make publishing decisions simply based on cost or page charge policies. In addition, authors in the United States are now facing similar issues due to economic constraints.



## Electronic Delivery of Content

Journal subscriptions will be available in electronic form only as of January 2013. As the number of online/electronic subscriptions grows, the cost of printing for a diminishing number of print subscriptions continues to increase. This allows the opportunity to offset the loss of publishing page charge revenue.

In addition, going to electronic-only delivery reduces our carbon footprint and makes us greener. Together, we will be saving a nontrivial number of trees, and reducing the chemical impact on the environment by not using paper and associated delivery impacts.

## Open Access/ Early Access

Open access has become a well-established form of scientific publishing. While there are a number of open access models in existence, the ASA, CSSA, and SSSA publications currently offer the following type of open access:

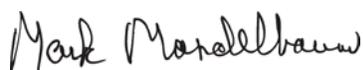
Early access model: Author-pays model: For an additional fee, authors may choose to have their papers placed in the journal's open access archive, and the article is immediately made freely accessible to the world. Less than 3% of all of our journal articles fall into this category.

The Societies have established an early access model to help generate citations for authors when a paper is published online upon acceptance. When copyediting and proofreading is completed, the originally posted paper is replaced with the finished final version. This process enables research results to be available sooner, providing an additional several weeks for the paper to garner more citations.

## Journal of Natural Resources & Life Sciences Education to Change its Name

The *Journal of Natural Resources & Life Sciences Education* will be changing its title to *Natural Sciences Education* as of January 2013. This change reflects the growing submissions from a wide range of scientists interested in the discipline of natural sciences, natural resources, and agriculture. When today's educators look for the latest teaching ideas in the life sciences, natural resources, and agriculture, they look to *Natural Sciences Education*. <https://www.agronomy.org/publications/nse>

The Societies and the Society staff are working together to realize the vision of our publishing future. These changes will enhance the value of what we can offer our Society members and the world.



Director of Publications  
ASA, CSSA, and SSSA

## In This Catalog

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# Journals & Magazines



## Agronomy Journal

*Agronomy Journal* is international journal of agriculture and natural resource sciences, published by the American Society of Agronomy, with articles relating to original research in soil science, crop science, agroclimatology and agro-nomic modeling, production agriculture, and software. ISSN 1435-0645

## Animal Frontiers

*Animal Frontiers* is the review magazine of animal agriculture. Co-published by the American Society of Animal Science (ASAS), Canadian Society of Animal Science (CSAS), and the European Federation of Animal Science (EAAP), *Animal Frontiers* addresses current significant issues important to animal agriculture on the global stage. Each issue will address a common theme with leading authors in those areas. *Animal Frontiers* is published quarterly with an intended international readership of scientists, politicians, industry leaders, and the general public seeking a scientific perspective on issues related to animal agriculture. Online ISSN 2160-6056 Print ISSN 2160-6064

To subscribe to this magazine call 217-356-9050 or email [asas@asas.org](mailto:asas@asas.org).

## Crop Science

*Crop Science* is the official journal of CSSA. Original research is published in crop breeding and genetics; crop physiology and metabolism; crop ecology, management, and quality; seed physiology, production, and technology; turfgrass science; forage and grazinglands; genomics, molecular genetics, and biotechnology; biomedical, health beneficial, and nutritionally enhanced plants; and pest management. *Crop Science* also publishes invited review and interpretation articles on recent advances in crop science. ISSN 1435-0653

## Crops & Soils

*Crops & Soils* is the magazine of choice for 16,000+ practicing professionals in agronomy, crops, and soils. Published six times a year, it focuses on solutions to the daily challenges facing those working in the field and includes feature stories, information on new technology and products, company strategies, CEU articles and quizzes, regulatory and industry news, and more. ISSN 0162-5098

## CSA News

*CSA News* is the official magazine of the 10,000+ members of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America. Each month you'll find feature stories; short, easy-to-read summaries of the latest research published in Society journals; science policy news from Washington, DC; news about the Societies; job listings; student and career activities; and more. ISSN 1529-9163

## Journal of Animal Science

*The Journal of Animal Science* (JAS) is the premier journal for animal science and serves as the leading source of new knowledge and perspective in this area. JAS publishes more than 400 fully reviewed research articles, invited reviews, technical notes, and letters to the editor each year. Articles published in JAS encompass a broad range of research topics in animal production and fundamental aspects of genetics, nutrition, physiology, and preparation and utilization of animal products. Twelve issues per year. Print ISSN 0021-8812 Online ISSN 1525-3163.

To subscribe to this journal call 217-356-9050 or email [asas@asas.org](mailto:asas@asas.org).

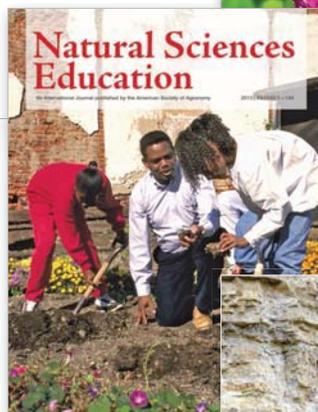
## Journal of Environmental Quality

Published by ASA, CSSA, and SSSA, JEQ covers various aspects of anthropogenic impacts on the environment, including terrestrial, atmospheric, and aquatic systems. Emphasis is given to the understanding of underlying processes. Sections include environmental modeling; remote sensing and environmental degradation; heavy metals; plant and environment interactions; organic compounds; surface water quality; groundwater quality; ecosystem restoration; vadose zone processes and chemical transport; waste management; atmospheric pollutants and trace gases; urban pollutants; landscape and watershed processes; wetlands and aquatic processes; bioremediation and biodegradation; ecological risk assessment, and environmental microbiology. ISSN 1537-2537



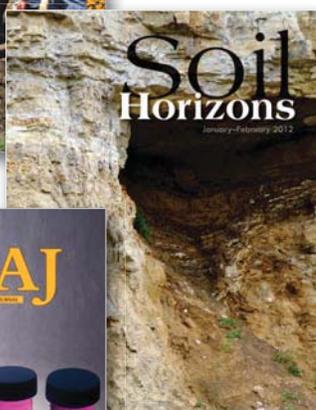
### Journal of Plant Registrations

In addition to cultivar, germplasm, parental line, genetic stock, and mapping population registrations, JPR also publishes perspective or review papers on historical plant material, the registration process, and related topics. The purpose of JPR is to present new scientific information and impact future research by providing descriptions of new plant material to scientists worldwide. ISSN 1940-3496



### Natural Sciences Education

New name! Formerly *Journal of Natural Resources and Life Sciences Education*, *Natural Sciences Education* is written by and for educators, covering all disciplines in the life sciences, natural resources, and agriculture. Published by ASA, the journal is interdisciplinary, with 10 cooperating associations. ISSN 2168-8281



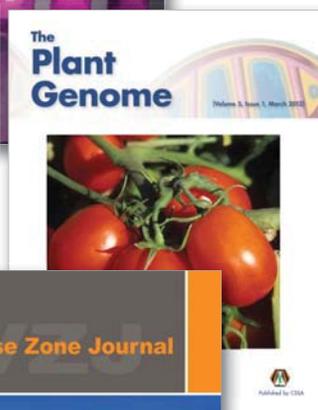
### Soil Horizons

The goal of *Soil Horizons* is to share the importance of soil science with a larger audience. It features stories celebrating the diversity and critical impact of soil scientists and their work. *Soil Horizons* also serves as an outlet for the publication of peer-reviewed papers on global issues and solutions in the study of soils, along with emerging challenges, ideas, unique field experiences, and findings. These papers may break from the traditional to explore everything from case studies as examples of a larger issue, to experiential papers with implications for further study or changes in practice. ISSN 2163-2812



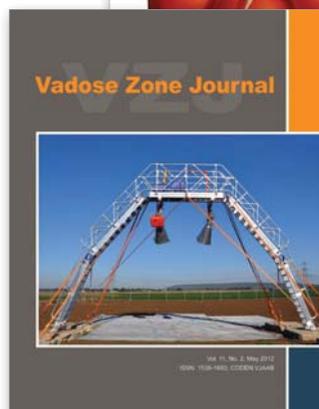
### Soil Science Society of America Journal

SSSA's official publication, its contents focus on physics; chemistry; biology and biochemistry; fertility and plant nutrition; genesis, morphology, and classification; water management and conservation; forest, range, and wild-land soils; nutrient management and soil and plant analysis; mineralogy; and wetland soils. ISSN 1435-0661



### The Plant Genome

*The Plant Genome* publishes original research that shows clear potential for translating genomic technology into agronomic advancement. The editorial board gives preference to novel reports that use innovative genomic applications that advance our understanding of plant biology and have demonstrative application to crop improvement. *The Plant Genome* also publishes invited review articles and perspectives that offer insight on recent advances in genomics and their potential for agronomic improvement. ISSN 1940-3372



### Vadose Zone Journal

A unique publication outlet for interdisciplinary research and assessment of the biosphere, with a focus on the vadose zone, the mostly unsaturated zone between the earth surface and the permanent water table. VZJ is a peer-reviewed, international journal publishing reviews, original research, and special sections across a wide range of disciplines. Published by Soil Science Society of America, with the Geological Society of America as a cooperator. ISSN 1539-1663

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# Society Updates

## CCA Program Celebrates 20 Years of Certification

The certification programs from the American Society of Agronomy are the benchmark of professionalism. The purpose of a certification program is to protect the public and the profession. The same is true of our certifications. It is a voluntary professional enhancement to a person's career credentials. Once certified, you are telling your clients, employer, and the public that you are serious about what you do as a professional. The American Society of Agronomy is proud to reach this milestone of 20 years in certifications!

Are you up to the challenge? Explore these certifications and choose the one that fits your career path.

Certified Crop Adviser (CCA) [www.certifiedcropadvisor.org](http://www.certifiedcropadvisor.org)

Certified Professional Agronomist (CPAg) [www.agronomy.org/certifications/cpag](http://www.agronomy.org/certifications/cpag)

Certification material including CEUs and Training materials can be found in *CSA News*, *Crops & Soils* magazine, and in the Digital Library. [www.dl.sciencesocieties.org](http://www.dl.sciencesocieties.org)



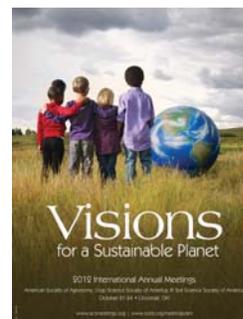
## Annual Meetings

The American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America will host more than 4,000 scientists, professionals, educators, and students at the 2012 International Annual Meetings, "Visions for a Sustainable Planet," Oct. 21–24, 2012, Cincinnati, OH.

The 2013 International Annual Meetings, "Water, Food, Energy & Innovation for a Sustainable World," Nov. 3–7 2013, Tampa, FL

[www.acsmeetings.org/](http://www.acsmeetings.org/)

All conference presentations including over 15,000 abstracts and recordings since 2005 are available in the new Digital Library!



## Do You ♥ Soil?

Soil—the ground beneath your feet—has an amazing story to tell. And because more awareness and education is still needed, "I heart Soil" was relaunched in conjunction with Earth Day in 2012.

The campaign originally kicked off in conjunction with the Soil Science Society of America's 75th Anniversary celebration in 2011. But following requests for support to inform the general public about the importance of soil and the ways it equates to good food, water quality, and better human health; the decision was made to not only relaunch, but expand the efforts of "I heart Soil."

Visit [www.iheartsoil.org](http://www.iheartsoil.org)



## Dig It! Exhibit

Uncover the secret world of soil at the Bell Museum of Natural History. There are more living creatures in a shovel full of rich soil than human beings on the planet. Yet more is known about the dark side of the moon than about soil. These are just a few of the fascinating facts visitors can learn at the exhibition, "Dig it! The Secrets of Soil," at the Bell Museum of Natural History in Minneapolis, MN from November 10, 2012 to July 28, 2013.

The exhibition reveals the complex world of soil and how this ecosystem underfoot supports nearly every form of life on earth. Developed by the Smithsonian's National Museum of Natural History and supported by the Soil Science Society of America, its founding sponsor, "Dig It!" includes interactive displays, hands-on models, videos, and 54 soil monoliths representing soils from each U.S. state, territory, and the District of Columbia.

[www.soils.org/smithsonian](http://www.soils.org/smithsonian)



# ACCESS **DL**

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Environmental Science Societies

DIGITAL LIBRARY

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# Science Lives Here

The Digital Library is a vital component in serving our mission and our membership by providing innovative, valuable resources for the betterment of our community, and our world.



**Crop Science**  
SOCIETY OF AMERICA

**Soil**  
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Society of America

# Digital Library Content

## 8 Research Journals—With Complete Archives

- Full text going back to Volume 1, Number 1
- All journals in pdf
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Agronomy Journal  
Soil Science Society of America Journal  
Crop Science  
Journal of Environmental Quality  
Journal of Plant Registrations  
The Plant Genome  
Natural Sciences Education  
Vadose Zone Journal

## 3 Magazines

- All archives included

Crops & Soils  
CSA News  
Soil Horizons

## 300 Books

- Frontlist: a combination of the best-selling and most recent books published, all in epub format, html and pdf
- Backlist of 270 books available in html and pdf
- Includes downloadable chapters

## Conference Presentations: Abstracts & Recordings

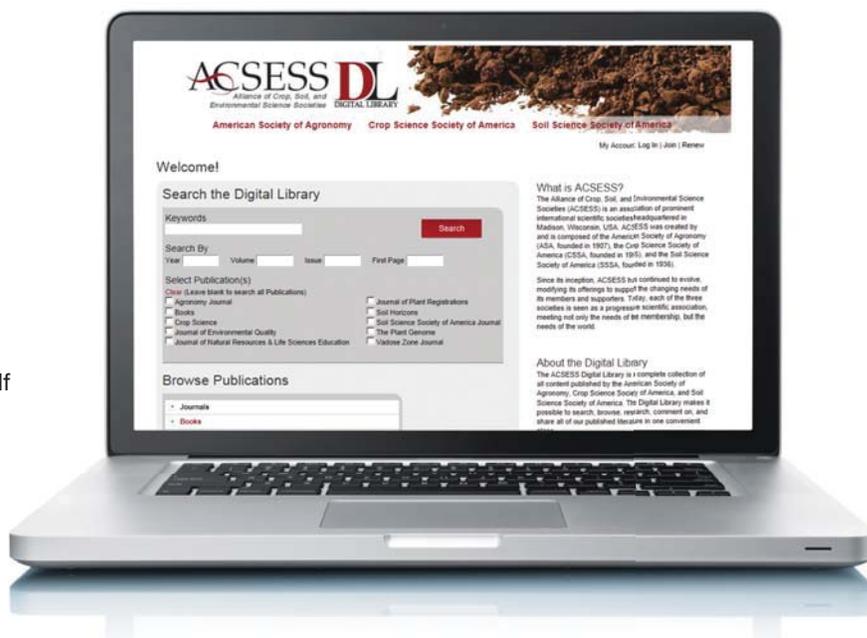
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## For each journal:

- Total number of papers published
- Average number of downloads per paper

## For each paper:

- Downloads for the past 6 weeks
- Downloads for the past 12 months
- Cumulative downloads since the article was first published

## For each member/author, a biographic profile page containing:

- All publications of that individual; includes metrics
- Optional upload of photo, c.v., personal information
- Author's current and past affiliations
- Society activities
- Areas of specialty based on taxonomy



Author Page

## Binders:

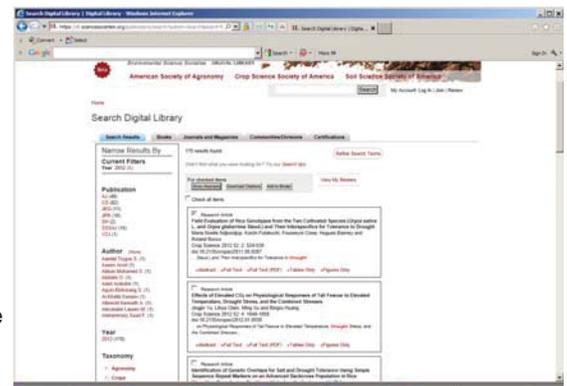
- Select items in search results to save, send to colleagues, share, or create a bibliography
- Available only to members and individuals of purchasing institutions

## Commentary capability:

- Each article, book chapter, book, and conference presentation will have room for comments

## Search:

- New search criterion — Taxonomies
- Search taxonomies individually by Society, or across all three
- Search terms can be toggled or highlighted



Create Binder



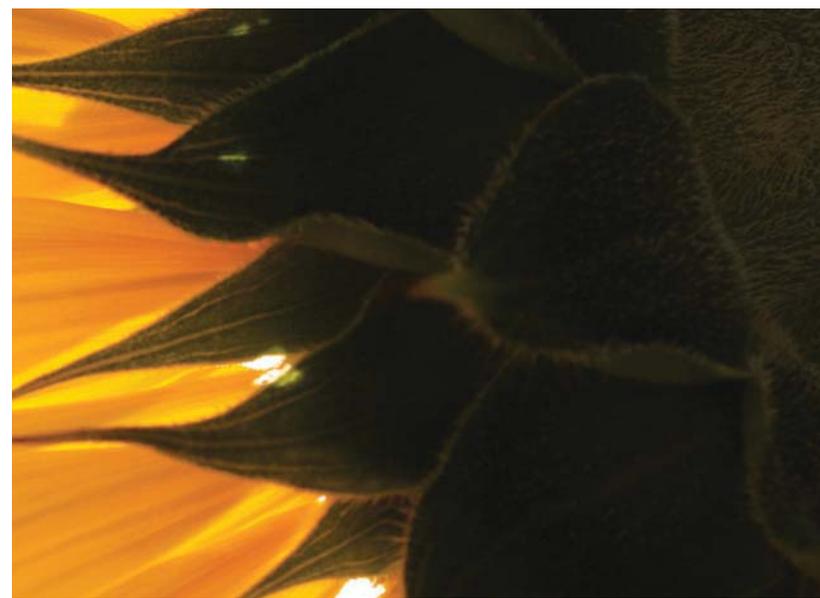
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## Digital Library subscriptions are available for Corporate Members

Corporate Membership is an effective component in your outreach to agronomy, crops, soils, and environmental sciences professionals and students. All membership levels provide the opportunity to access the Digital Library, meetings, membership, and recognition benefits. A corporate membership supports the missions of the Societies and the development of students in our professions.

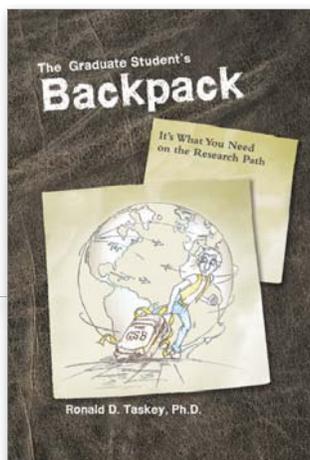


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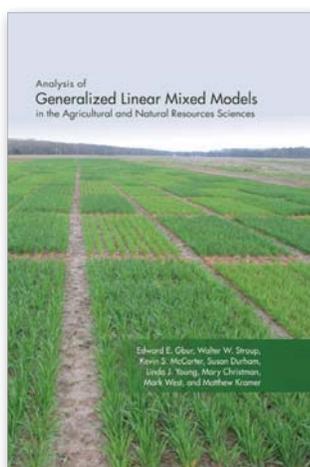
# New Books



## The Graduate Student's Backpack

Ronald D. Taskey

The new graduate student must select a graduate committee, plan course work, find an original research topic, and design a research plan that ultimately leads to a defensible thesis or series of publishable research articles. Whether a graduate student plans a research career or not, he or she typically must complete an original, independent, analytical study, even though few beginning students know how or where to begin. This process-oriented manual holds the fundamentals students in the sciences need to trek the graduate school path—it is a “backpack” filled with the requirements, tips, warnings, and enough humor to help students make the most of the journey. Ronald D. Taskey, author. Flex cover, 208 pp., 2012; ASA, CSSA, SSSA. ISBN: 978-0-89118-334-1. Item B40736.



## Analysis of Generalized Linear Mixed Models in the Agricultural and Natural Resources Sciences

Edward E. Gbur, Walter W. Stroup, Kevin S. McCarter, Susan Durham, Linda J. Young, Mary Christman, Mark West, and Matthew Kramer

*Generalized Linear Mixed Models in the Agricultural and Natural Resources Sciences* provides readers with an understanding and appreciation for the design and analysis of mixed models for non-normally distributed data. It is the only publication of its kind directed specifically toward the agricultural and natural resources sciences audience. Readers will especially benefit from the numerous worked examples based on actual experimental data and the discussion of pitfalls associated with incorrect analyses. Edward E. Gbur, Walter W. Stroup, Kevin S. McCarter, Susan Durham, Linda J. Young, Mary Christman, Mark West, and Matthew Kramer, authors. Hardcover, 298 pp., 2012; ASA, CSSA, SSSA. ISBN: 978-0-89118-182-8. Item B40733.

## Watch for New Books—Fall 2012

Bookmark [www.dl.sciencesocieties.org/publications/books](http://www.dl.sciencesocieties.org/publications/books)

## Urban–Rural Interfaces: Linking People and Nature

David N. Laband, B. Graeme Lockaby, and Wayne Zipperer, editors

## Know Soil, Know Life

A soil science book for high school and college students  
David Lindbo and members of the SSSA K-12 Education Committee

## Turfgrass: Biology, Use, and Management

Agronomy Monograph  
John Stier, Brian Horgan, and Stacy Bonos, editors

## Quantifying and Modeling Soil Structure Dynamics

Advances in Agricultural Systems Modeling 3  
Sally Logsdon, Rainer Horn, and Markus Berli, editors

## Enhancing Understanding and Quantification of Soil–Root Growth Interactions

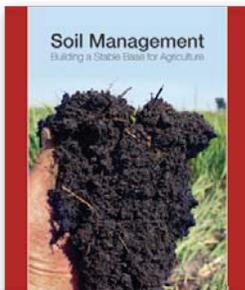
Advances in Agricultural Systems Modeling 4  
Dennis Timlin and Laj Ahuja, editors

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# Favorites



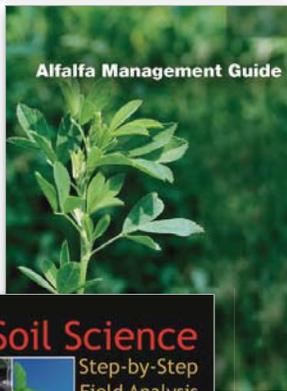
## Soil Management: Building a Stable Base for Agriculture

Unique because of its treatment of soil management based on principles—the physical, chemical, and biological processes and how together they form the foundation for soil management—this book pulls it all together. Whether new to soil science or needing a concise reference, readers will learn to integrate the science of soils with management issues and long-term conservation. Degradation of soils colliding with increasing climate variation will eventually create a local, regional, or even global crisis, but it's not too late if we implement our ever-expanding scientific understanding of soils. Jerry L. Hatfield and Thomas J. Sauer, ed. Hardcover, 430 pp., 2011. ASA and SSSA. ISBN: 978-0-89118-853-7. Item B50804.



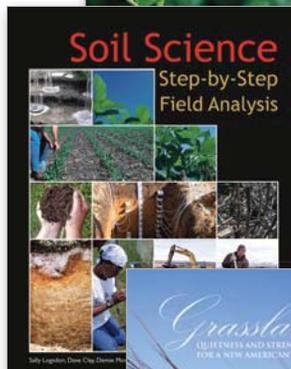
## SOIL! Get the Inside Scoop

Get kids excited about the living world of soil! Written for elementary school children, but with something for children of all ages, this full-color book explores how soil is part of our life—the food we eat, the air we breathe, the water we drink, the houses we live in, and more. Along the way, readers learn about different kinds of soil and meet the scientists who work with soil every day. David Lindbo and others, authors. Softcover, 32 pp., 2008; SSSA. ISBN: 978-089118-848-3. Item B60913. Inquire about volume discounts.



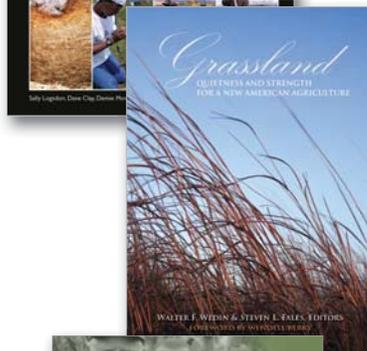
## Alfalfa Management Guide

An attractive and information-packed publication designed especially for busy growers, with to-the-point recommendations, useful images of diseased plants and pests, and quick-reference tables and charts. Revised in 2011, this edition covers the latest strategies for alfalfa establishment, production, and harvest—soil testing, fertilizing, integrated pest management, rotation, and more. Dan Undersander, Dennis Cosgrove, Eileen Cullen, Craig Grau, Marlin E. Rice, Mark Renz, Craig Sheaffer, Glen Shewmaker, and Mark Sulc. Softcover, 8 1/2 x 11", full color, 63 pp., 2011. ISBN: 978-0-89118-179-8. Item B40730. Volume pricing available



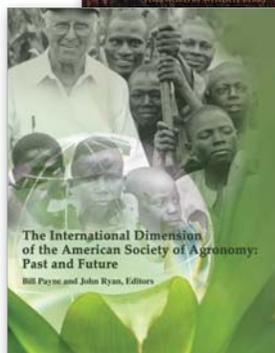
## Soil Science: Step-by-Step Field Analysis

Natural resource manager, agronomist, educator, land-use and environmental consultants.... The lines are blurred, the questions are complicated, and soil science is required knowledge. *Soil Science: Step-by-Step Field Analysis* provides the knowledge for conducting specific activities related to improved natural resource management. Readers will learn both new procedures and tips for improved performance in the field, without a lot of background theory and with a focus on usefulness for real-life applications. Sally Logsdon, Dave Clay, Demie Moore, Teferi Tsegaye, ed. Water-resistant softcover with coil binding, 255 pp., 2008; SSSA. ISBN: 978-089118-849-0. Item B60915.



## Grassland: Quietness and Strength for a New American Agriculture

Geared toward agriculturists, students, the public, and policy makers, *Grassland* takes on the task of increasing our awareness of the vital role grass and grassland plants have in ensuring a sustainable future for America. Aiming to inspire and educate, the book's three main sections highlight the voices of grassland advocates through history, examine the many functions of grassland today, and look at the benefits grass-based agriculture can provide when grass is treated as an essential resource. Includes a foreword by Wendell Berry and a companion CD with the 1948 USDA Grass Yearbook. Walter F. Wedin and Steven L. Fales, ed. Hardcover, 256 pp., 2009; ASA, CSSA, SSSA. ISBN: 978-0-89118-171-2. Item B40722.



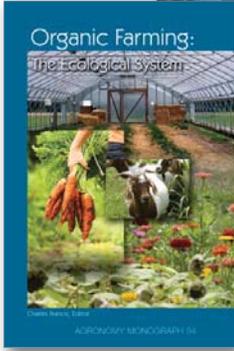
## The International Dimension of the American Society of Agronomy: Past and Future

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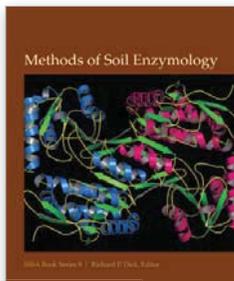
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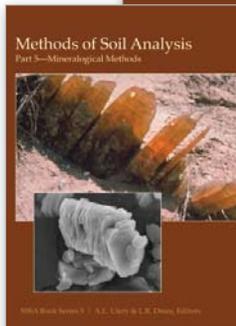
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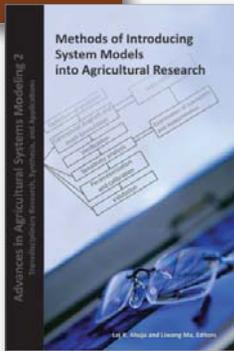
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