

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

Journals & Magazines
Society Updates
ACSESS Digital Library
Books
Society Publications
2013 Pricing

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

5585 Guilford Rd., Madison, WI 53711-5801, USA | 608-273-8080 | FAX: 608-273-2021
www.SocietyStore.org | journals@sciencesocieties.org | books@sciencesocieties.org



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-economic 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.

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

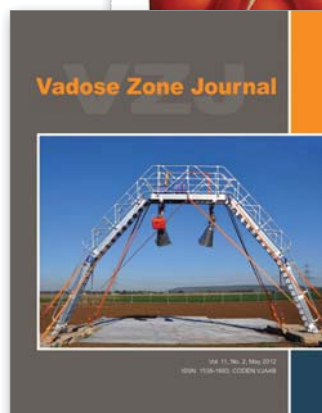
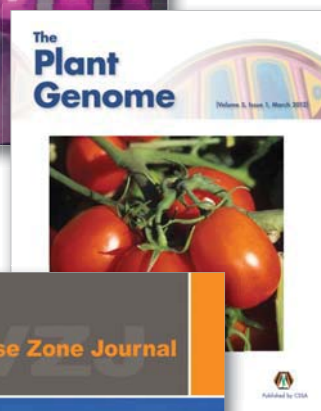
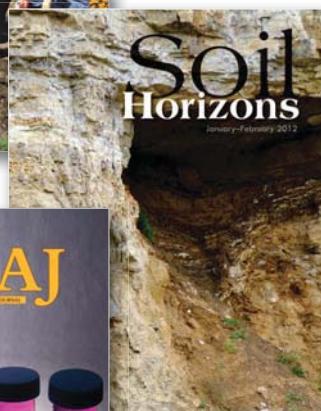
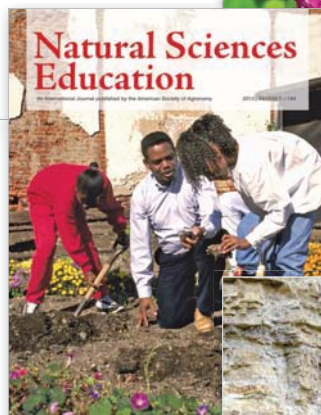
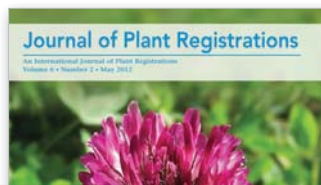
Journal of Animal Science

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.

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

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

5585 Guilford Rd., Madison, WI 53711-5801, USA | 608-273-8080 | FAX: 608-273-2021
www.SocietyStore.org | journals@sciencesocieties.org | books@sciencesocieties.org



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

Certified Professional Agronomist (CPAg) 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



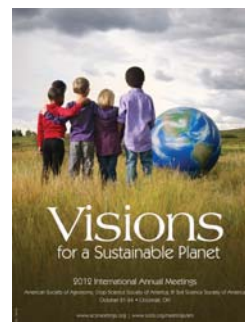
Annual Meetings

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/

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



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





www.dl.sciencesocieties.org

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.



Digital Library Content

8 Research Journals—With Complete Archives

- Full text going back to Volume 1, Number 1
- All journals in pdf
- Journals from 2000 forward in html and pdf

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

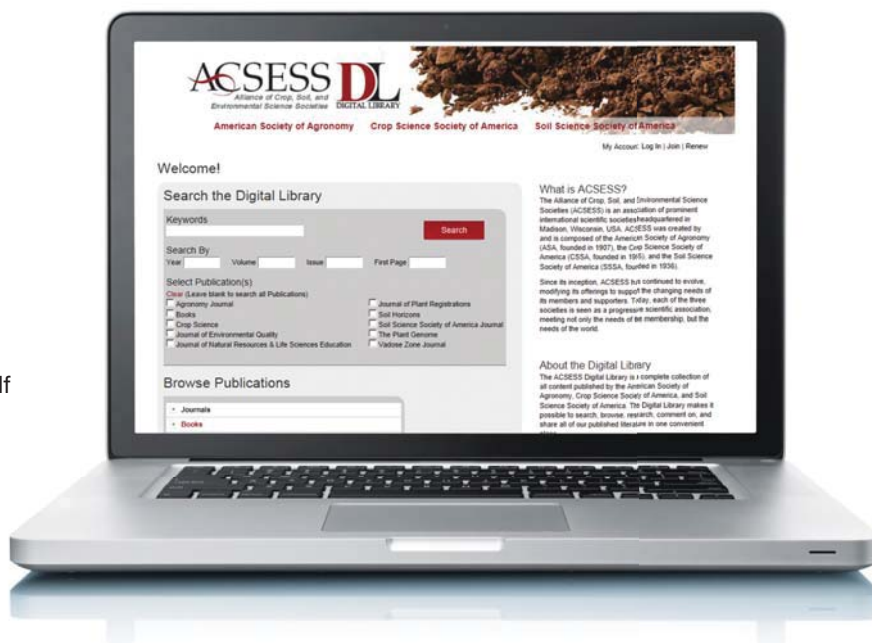
- Over 15,000 since 2005

Certifications Documents & Related Literature

- CEUs
- Training

Videos, Webcasts

Datasets, Data Models, and Modules



Request information for your library

queries@dl.sciencesocieties.org

Trials available!

www.dl.sciencesocieties.org

Digital Library Features

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

Binders:

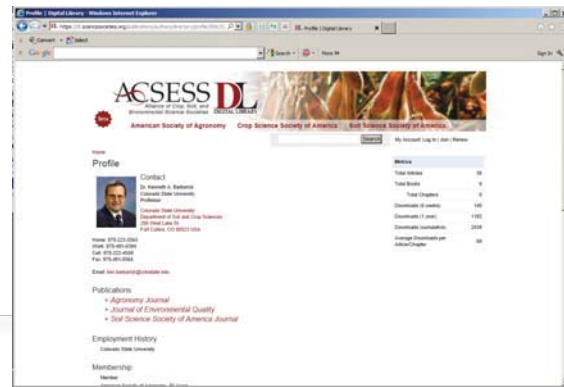
- Select items in search results to save, send to colleagues, share, or create a bibliography
- Available only to members and individuals of purchasing institutions

Commentary capability:

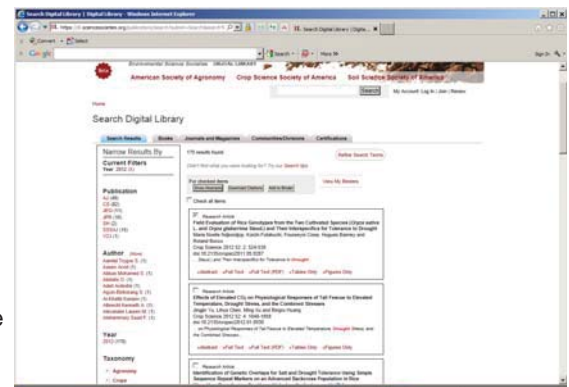
- Each article, book chapter, book, and conference presentation will have room for comments

Search:

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



Author Page



Create Binder



Search

ACSESS DL
Alliance of Crop, Soil, and
Environmental Science Societies DIGITAL LIBRARY

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

5585 Guilford Rd., Madison, WI 53711-5801, USA
608-273-8080 | FAX: 608-273-2021

www.SocietyStore.org
journals@sciencesocieties.org | books@sciencesocieties.org



Subscribe Today!

We have an agent near you. Whether you're in the United States or across the globe, there is someone nearby to discuss all of our publication offerings.

Country & Agent

iGroup (Asia Pacific) Ltd.
stanley.tan@igroupnet.com

Australia
Bangladesh
Bhutan
China
Hong Kong
India
Indonesia
Japan
Malaysia
Nepal
New Zealand
Pakistan
Philippines
Singapore
South Korea
Sri Lanka
Taiwan
Thailand
Vietnam

**Systems Link
International, Inc.**
contact@systemsint.info

Argentina
Barbados
Belize
Bolivia
Brazil
Chile
Colombia
Costa Rica
Cuba
Dominica
Ecuador
El Salvador
Grenada
Guatemala
Guyana
Haiti
Honduras
Jamaica
Mexico
Nicaragua
Panama
Paraguay
Peru
Puerto Rico
Republica Dominicana
St Kites & Nevis
St Lucia
St Vincent & Grenadines
Suriname
Trinidad & Tobago
Uruguay
Venezuela

TechKnowledge FZ LLC
sales@techknowledge.ae

Algeria
Bahrain
Egypt
Jordan
Kazakhstan
Kuwait
Lebanon
Libya
Morocco
Oman
Palestine
Qatar
Saudi Arabia
Sudan
Syria
Tunisia
Turkey
UAE

General information

Questions: queries@dl.sciencesocieties.org

Sales/Quotes/Trials: sales@dl.sciencesocieties.org

Publications Marketing Coordinator:

Tricia Newell: tnewell@sciencesocieties.org

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.

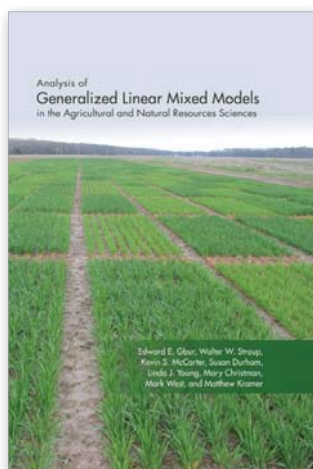
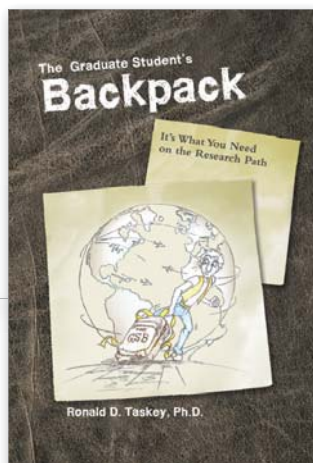


American Society of Agronomy
Crop Science Society of America
Soil Science Society of America

www.dl.sciencesocieties.org



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

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

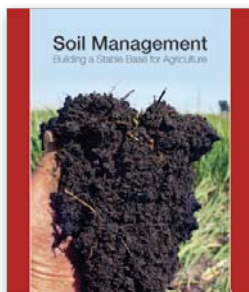
Advances in Agricultural Systems Modeling 4
Dennis Timlin and Laj Ahuja, editors

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

5585 Guilford Rd., Madison, WI 53711-5801, USA | 608-273-8080 | FAX: 608-273-2021
www.SocietyStore.org | journals@sciencesocieties.org | books@sciencesocieties.org



Favorites



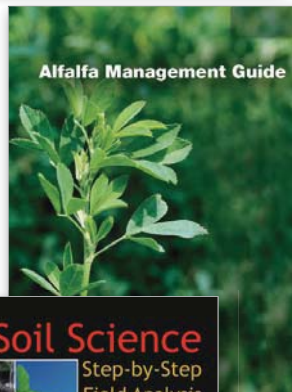
Soil Management: Building a Stable Base for Agriculture

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.



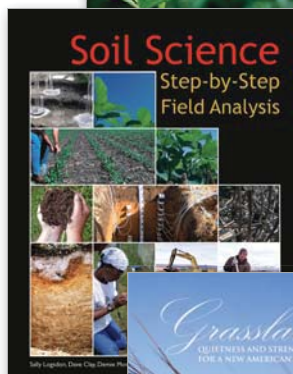
SOIL! Get the Inside Scoop

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



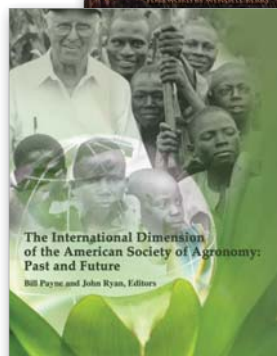
Soil Science: Step-by-Step Field Analysis

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

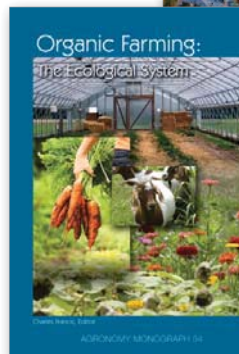
For more than 100 years scientists have made the American Society of Agronomy a force for international change to improve agriculture. Learn the linkages and meet some of the luminaries. The real treasure of this book is its look forward with "viewpoint" essays from leading agronomists who prophesize the future of world agronomy in the context of changing diets, food crises, biofuels, fertilizer trends, the emergence of organic agriculture, the underinvestment in agricultural research, and more. Bill Payne and John Ryan, ed. Softcover, 126 pp., 2010. ASA. ISBN: 978-0-89118-176-7. Item B10264.



Agronomy Monographs

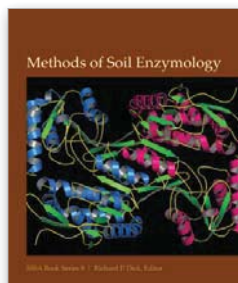
Urban Ecosystem Ecology

If more than half the earth's people live in cities and the amount of paved surfaces in the United States is equivalent to the area of Ohio, shouldn't our sciences thrive in the city? This book reconciles environmental sciences with the world's growing urbanization. From wildlife to water, from urban agriculture to low-impact development, this book explores the ecology of urban and suburban ecosystems, but it puts humans into the ecosystem rather than assigning them positions of onlookers or polluters. Jacqueline Aitkenhead-Peterson and Astrid Volder, ed. 2010; ASA, CSSA, SSSA. Agron Monogr. 55. ISBN: 978-0-89118-175-0. Item B40728.



Organic Farming: The Ecological System

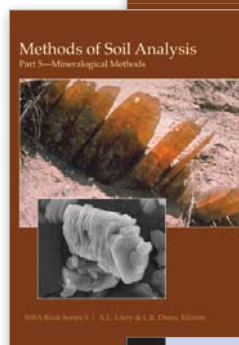
"...a window on this dynamic system that is shaping the profile of food in this country." Topics covered include history and certification, the basis of sustainability, biodiversity, crop-animal systems, forages, grain, oil seed, specialty crops, soil nutrient needs, vegetation and pest management, marketing, food security, education, research, and the future outlook. Combining farmer experience and wisdom with the best that science has to offer can help us better understand organic systems and how to design them to meet human needs and preserve an environment where we would like to live. Charles Francis, ed. Hardcover, 378 pp., 2009; ASA, CSSA, SSSA. Agron. Monogr. 54. ISBN: 978-0-89118-173-6. Item B40726.



SSSA Book Series—Methods of Soil Analysis

Methods of Soil Enzymology

Methods in Soil Enzymology provides the first comprehensive set of vetted methods for studying enzymes in soils. Main topics include activity assays, enzyme extraction, and synthetic enzyme complexes. Each method covered includes background information, step-by-step procedures, and special comments regarding nuances, pitfalls, and interpretation of the method. Learn the latest methods, including enzyme extraction methods and procedures for creating synthetic enzyme complexes, as well as the newest ways to use small-scale and high-throughput methods for enzyme activity assays. Richard P. Dick, ed. Hardcover, 425 pp., 2011; SSSA. SSSA Book Ser. 9. ISBN: 978-0-89118-854-4. Item B60938.



Part 5. Mineralogical Methods

The latest installment in the well-received Methods of Soil Analysis series presents valuable techniques that will enable researchers to analyze mineralogy for a wide variety of applications. An understanding of mineralogical composition provides crucial insight into the fundamental behavior of soils and their response to environmental conditions and management. Highlights include extensive coverage of new techniques, such as X-ray absorption and diffuse reflectance spectroscopy, and updated chapters on thermal analysis and selective dissolution methodologies. Each chapter provides the basic principles of the method, the method itself, and assists in the interpretation of results. A.L. Ulery and L.R. Drees, ed. Hardcover, 544 pp., 2008; SSSA. SSSA Book Ser. 5. ISBN: 978-0-89118-846-9. Item B60912.



Advances in Agricultural Systems Modeling

Methods of Introducing System Models into Agricultural Research

Agricultural system models enhance and extend field research...to synthesize and examine experiment data and advance our knowledge faster, to extend current research in time to predict best management systems, and to prepare for climate-change effects on agriculture. This is the ultimate handbook for scientists in the proper methods of model use. Readers will learn parameter estimation, calibration, validation, and extension of experimental results to other weather conditions, soils, and climates. Laj R. Ahuja and Liwang Ma, ed. Hardcover plus companion CD with modeling software, 450 pp., 2011; ASA, CSSA, SSSA. Advances in Agricultural Systems Modeling 2. ISBN: 978-0-89118-180-4. Item B40732.

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

5585 Guilford Rd., Madison, WI 53711-5801, USA | 608-273-8080 | FAX: 608-273-2021
www.SocietyStore.org | journals@sciencesocieties.org | books@sciencesocieties.org

Visit www.SocietyStore.org for hard copies, more series, and additional products.



Titles in the ACSESS Digital Library

Journals & Magazines

Agronomy Journal
Crop Science
Crops & Soils
CSA News
Journal of Environmental Quality
Journal of Plant Registrations
Natural Sciences Education
Soil Horizons
Soil Science Society of America Journal
The Plant Genome
Vadose Zone Journal

Books

A New Look at Energy Sources
A Spectrum of Achievements in Agronomy: Women Fellows of the Tri-Societies
Acid Sulfate Weathering
Advances in Carbon Dioxide Effects Research
Advances in Measurement of Soil Physical Properties: Bringing Theory...
Aerospace Science and Agricultural Development
Agricultural Development Soil, Food, People, Work
Agricultural Drainage
Agricultural Ecosystem Effects on Trace Gases and Global Climate Change
Agricultural Ethics: Issues for the 21st Century
Agricultural Research in the Northeastern United States: Critical Review ...
Agricultural Utilization of Urban and Industrial By-Products
Agriculture and Environment: Bridging Food Production and Environmental Protection in Developing Countries
Agroecosystems Analysis
Agronomic Research for Food
Agronomists and Food: Contributions and Challenges
Agronomy & Health
Agronomy in a Changing World and Research Needs For The Seventies
Agronomy in Today's Society
Agronomy: Science in Action
Agronomy—Solving Problems, Serving People
Alfalfa and Alfalfa Improvement
Alfalfa Management Guide
Alfalfa Science and Technology
All-Out Food Production: Strategy and Resource Implications
Analysis of Generalized Linear Mixed Models in the Agricultural and Natural Resources Sciences
Anti-Quality Components of Forages
Applications of GIS to the Modeling of Non-Point Source Pollutants in the Vadose...
Aquic Conditions and Hydric Soils: The Problem Soils
Barley
Biological N Fixation in Forage-Livestock Systems
Bioremediation of Contaminated Soils
Bioremediation: Science and Applications
Carbon Forms and Functions in Forest Soils
Challenge to Agronomy For The Future
Challenges and Strategies of Dryland Agriculture
Changing Patterns in Fertilizer Use
Chemical Equilibrium and Reaction Models
Chemical Mobility and Reactivity in Soil Systems
Chemical Processes in Soils
Chemistry in the Soil Environment
Climate Change and Agriculture: Analysis of Potential International Impacts
Clover Science and Technology
Compilation of North American Maize Breeding Germplasm
Concepts and Breeding of Heterosis in Crop Plants
Conservation of Crop Germplasm—An International Perspective
Contributions from Breeding Forage and Turf Grasses
Cool-Season Forage Grasses
Corn and Corn Improvement
Corn Silage Production, Management, and Feeding
Cotton
Crop Breeding
Crop Quality, Storage, and Utilization
Crop Residue Management Systems
Crop Tolerance to Suboptimal Land Conditions
Cropping Strategies for Efficient Use of Water and Nitrogen
Crops & Man
Crops as Sources of Nutrients for Humans
Current Concepts For Agronomic Education
Data Reliability and Risk Assessment in Soil Interpretations
Defining Soil Quality for a Sustainable Environment
Designing Crops for Added Value
Determinants of Soil Loss Tolerance
Digital Imaging and Spectral Techniques: Applications to Precision Agriculture ...
Diversity of Soils in the Tropics
Drainage for Agriculture
Drainage of Agricultural Lands
Drought Injury and Resistance in Crops
Dryland Agriculture
Ecology, Production, and Management of Lolium for Forage in the USA
Erosion and Productivity of Soils Containing Rock Fragments
Experiments in Crop Science.
Exploring the Role of Diversity in Sustainable Agriculture
Factors of Soil Formation: A Fiftieth Anniversary Retrospective
Fertilizer Technology and Use
Fescue Toxicosis and Management
Field Measurement of Dinitrogen Fixation and Denitrification
Field Soil Water Regime
Food For Billions
Forage Cell Wall Structure and Digestibility
Forage Economics-Quality
Forage Fertilization
Forage Plant Physiology and Soil-Range Relationships
Forage Quality, Evaluation, and Utilization
Fragipans: Their Occurrence, Classification, and Genesis
Future Developments in Soil Science Research.
Future Prospects for Soil Chemistry
Genetic Contributions to Yield Gains of Five Major Crop Plants
Genetic Improvement in Yield of Wheat
Genetic Improvement of Seed Quality
Genetics: A Laboratory Manual
Geochemistry of Soil Radionuclides
Glossary of Crop Science Terms
Glossary of Soil Science Terms 2008
Grass Tetany
Grassland: Quietness and Strength for a New American Agriculture
Grazing Research: Design, Methodology, and Analysis
Guidelines for Analysis and Description of Soil and Regolith Thin Sections
Guy D. Smith Discusses Soil Taxonomy.
Historical Aspects of Soil Survey and Soil Classification.
Histosols: Their Characteristics, Classification, and Use
Humic Substances and Chemical Contaminants
Humic Substances in Soil and Crop Sciences: Selected Readings
Hybridization of Crop Plants
Impact of Carbon Dioxide, Trace Gases, and Climate Change on Global...
Impacts of El Niño and Climate Variability on Agriculture
Improving the Productivity and Sustainability of Rice-Wheat Systems: Issues...
Instrumental Methods for Analysis of Soils and Plant Tissue
Intellectual Property Rights Associated with Plants
Intellectual Property Rights III. Global Genetic Resources: Access and Property...
Intellectual Property Rights: Protection of Plant Materials
Interactions of Soil Minerals with Natural Organics and Microbes
International Agronomy Training and Education
International and National Outlook—The Necessity for Efficient Nutrient Utilization
International Crop Science I
International Germplasm Transfer: Past and Present
Introduction to Crop Protection
Irrigation of Agricultural Crops
Irrigation of Agricultural Lands
Land Application of Agricultural, Industrial, and Municipal By-Products
Land Use Planning
Limitations to Efficient Water Use in Crop Production
Linking Genetic Resources and Geography: Emerging Strategies for Conserving...
Lunar Base Agriculture: Soils for Plant Growth
Managing Nitrogen for Groundwater Quality and Farm Profitability
Managing Soils in an Urban Environment
Maximum Crop Yields—The Challenge
Methods for Assessing Soil Quality
Methods of Introducing System Models into Agricultural Research
Methods of Soil Analysis: Part 1—Physical and Mineralogical Methods
Methods of Soil Analysis: Part 2—Microbiological and Biochemical Properties
Methods of Soil Analysis: Part 2—Microbiological and Biochemical Properties
Methods of Soil Analysis: Part 2—Chemical and Microbiological Properties
Methods of Soil Analysis: Part 3—Chemical Methods
Methods of Soil Analysis: Part 4—Physical Methods
Methods of Soil Analysis: Part 5—Mineralogical Methods
Methods of Soil Analysis: Physical and Mineralogical Properties....Part 1
Methods of Soil Analysis: Physical and Mineralogical Properties....Part 2
Methods of Soil Enzymology
Microbial-Plant Interactions
Micrometeorology in Agricultural Systems
Micronutrients in Agriculture
Mineral Classification of Soils
Mineralogy In Soil Science & Engineering
Minerals in Soil Environments

Minirhizotron Observation Tubes: Methods and Applications for Measuring...
 Modeling Crop Photosynthesis—From Biochemistry to Canopy
 Modeling Plant and Soil Systems
 Modification of Seed Composition to Promote Health and Nutrition
 Molecular and Cellular Technologies for Forage Improvement
 Moving Off The Yield Plateau
 Moving Up the Yield Curve: Advances and Obstacles
 Multiple Cropping
 Mycorrhizae in Sustainable Agriculture
 Myths and Science of Soils of the Tropics
 Native Warm-Season Grasses: Research Trends and Issues
 Near-Infrared Reflectance Spectroscopy in Agriculture
 NH₃ Agricultural Anhydrous Ammonia Technology and Use
 Nitrification Inhibitors--Potentials and Limitations
 Nitrogen Fixation in Crop Production
 Nitrogen in Agricultural Soils
 Nitrogen in Agricultural Systems
 Nitrogen in Crop Production
 Nitrogen Nutrition of Cotton: Practical Issues
 North American Agroforestry: An Integrated Science and Practice
 Nutrient Mobility in Soils: Accumulation & Losses
 Nutritional Quality of Cereal Grains
 Oat Science and Technology
 Oats and Oat Improvement
 Occurrence, Characteristics, and Genesis of Carbonate, Gypsum, and Silica...
 Opportunities in Basic Soil Science Research
 Opportunities in Soil Science Research
 Organic Farming: Current Technology and Its Role In a Sustainable Agriculture
 Organic Farming: The Ecological System
 Our Heritage of Land and Water Resources
 Pasture and Forage Crop Pathology
 Pedological Perspectives in Archeological Research
 Persistence of Forage Legumes.
 Pesticides and Their Effects on Soils and Water
 Pesticides in Soil & Water
 Pesticides in the Soil Environment: Processes, Impacts and Modeling
 Phosphorus: Agriculture and the Environment
 Physical and Chemical Processes of Water and Solute Transport/Retention in Soils
 Physiological Aspects of Crop Yield
 Physiological Basis of Crop Growth and Development
 Physiological-Pathological Interactions Affecting Seed Deterioration
 Physiology and Determination of Crop Yield
 Physiology and Modeling Kernel Set in Maize
 Physiology of Seed Deterioration
 Planning Future Land Uses
 Planning the Uses and Management of Land
 Plant and Nematode Interactions
 Plant Breeders' Rights
 Plant Breeding and Sustainable Agriculture: Considerations for Objectives and...
 Plant Environment and Efficient Water Use
 Post-Harvest Physiology and Preservation of Forages
 Potassium in Agriculture
 Practical Perspectives in Science Education
 Precision Agriculture. Proc. 3rd International Conference
 Precision Agriculture: Proc 4th International Conference. Part A.
 Precision Agriculture: Proc 4th International Conference. Part B.
 Predicting Tillage Effects on Soil Physical Properties and Processes
 Proceedings of The Second International Turfgrass Research Conference
 Proceedings of The Third International Turfgrass Research Conference
 Quantifying Soil Hydromorphology
 Quantitative Methods in Soil Mineralogy
 Quantitative Modeling of Soil Forming Processes
 Range Research and Range Problems
 Range Resources of the Southeastern United States
 Rates of Soil Chemical Processes
 Reactions and Movement of Organic Chemicals in Soils
 Reclamation of Drastically Disturbed Lands
 Replenishing Soil Fertility in Africa
 Research Ethics, Manuscript Review, and Journal Quality
 Research on Water
 Research With A Mission
 Response of Crops to Limited Water: Understanding and Modeling Water Stress
 Effects on Plant Growth Processes
 Roots and Soil Management: Interactions between Roots and the Soil
 Roots, Nutrient and Water Influx, and Plant Growth
 Scaling in Soil Physics: Principles and Applications
 Seed Moisture
 Selected Papers In Soil Formation & Classification
 Selenium in Agriculture and the Environment
 Seventy Generations of Selection For Oil and Protein in Maize
 Sewage Sludge: Land Utilization and the Environment
 Silage Science and Technology
 Site-Specific Management for Agricultural Systems
 Soil Acidity and Liming
 Soil and Water Conservation Advances in the United States
 Soil and Water Resources: Research Priorities for the Nation
 Soil and Water Science: Key to Understanding Our Global Environment
 Soil Carbon Sequestration and the Greenhouse Effect

Soil Chemistry and Ecosystem Health
 Soil Color
 Soil Conditioners
 Soil Erosion and Conservation in the Tropics
 Soil Erosion and Crop Productivity
 Soil Fertility and Organic Matter as Critical Components of Production Systems
 Soil Management: Building a Stable Base for Agriculture
 Soil Micromorphology and Soil Classification
 Soil Mineralogy with Environmental Applications
 Soil Nitrogen
 Soil Organic Matter: Analysis and Interpretation
 Soil Science Education: Philosophy and Perspectives
 Soil Science: Step-by-Step Field Analysis
 Soil Specific Crop Management
 Soil Survey Techniques
 Soil Surveys and Land Use Planning
 Soil Taxonomy--Achievements and Challenges
 Soil Testing & Plant Analysis
 Soil Testing and Plant Analysis
 Soil Testing: Correlating and Interpreting the Analytical Results
 Soil Testing: Prospects for Improving Nutrient Recommendations
 Soil Testing: Sampling, Correlation, Calibration, and Interpretation
 Soil Water
 Soils for Management of Organic Wastes and Waste Waters
 Sorption and Degradation of Pesticides and Organic Chemicals in Soil
 Soybeans: Improvement, Production, and Uses
 Spatial Variabilities of Soils and Landforms
 Stubble Over the Soil. The Vital Role of Plant Residue in Soil Management to...
 Sulfur in Agriculture
 Sulfur: A Missing Link between Soils, Crops, and Nutrition
 Sunflower Science and Technology
 Sunflower Technology and Production
 Sustainability of Agricultural Systems in Transition
 Sustaining Soil Fertility in West Africa
 Systems Analysis in Forage Crops Production and Utilization
 Tall Fescue
 Tall Fescue for the Twenty-first Century
 Technologies for Sustainable Agriculture in the Tropics
 The American Society of Agronomy: 100 Years of History
 The Contribution of Soil Science to the Development of and Implementation...
 The Effect of FDA Regulations (GRAS) on Plant Breeding and Processing
 The Genetics and Exploitation of Heterosis in Crops.
 The Graduate Student's Backpack
 The International Dimension of the American Society of Agronomy: Past and Future
 The Mutants of Maize.
 The Role of Phosphorus in Agriculture
 The Role of Potassium in Agriculture
 The Role of Seed Certification in the Seed Industry
 The Role of Soil Science in Interdisciplinary Research
 The State of Site-Specific Management for Agriculture
 Tomography of Soil-Water-Root Processes
 Transferring Technology for Small-Scale Farming
 Trefoil: The Science and Technology of Lotus
 Triticale
 Tropical Forages in Livestock Production Systems
 Turf Weeds and Their Control
 Turfgrass
 Turfgrass Science
 Universal Soil Loss Equation: Past, Present, and Future
 Use of Plant Introductions in Cultivar Development. Part 1.
 Use of Plant Introductions in Cultivar Development. Part 2.
 Utilization, Treatment, and Disposal of Waste on Land
 Variability in Rangeland Water Erosion Processes
 Variety Protection
 Warm-Season (C4) Grasses
 Water Potential Relations in Soil Microbiology
 Wheat and Wheat Improvement
 Whole Regolith Pedology
 World Population and Food Supplies

Search and browse the ACSESS Digital Library
www.dl.sciencesocieties.org

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

5585 Guilford Rd., Madison, WI 53711-5801, USA | 608-273-8080 | FAX: 608-273-2021
www.SocietyStore.org | journals@sciencesocieties.org | books@sciencesocieties.org

