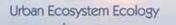
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# Special Publications

Soil and Water Conservation Advances in the United States

### New Soil and Water Conservation Advances in the United States

Have agricultural management efforts begun in the desperation of the Dust Bowl brought us to where we need to be tomorrow? Questions about the environmental footprint of farming make this book required reading. Approximately 62% of the total U.S. land area is used for agriculture, and this land also provides critical ecosystem functions. Authors from each region of the continental United States describe the progress of soil and water conservation to date and visualize how agricultural production practices must change in future years to address the newest challenges. Ted M. Zobeck and William F. Schillinger, ed. Hardcover, 320 pp., 2010; SSSA. SSSA Spec. Publ. 60. ISBN: 978-0-89118-852-0. Item B60936. \$60. Members: \$48.





### Soil Carbon Sequestration and the Greenhouse Effect Second Edition

Observed and predicted climate changes attributed to anthropogenic increases in atmospheric CO<sub>2</sub> urgently present the question, what can be done? This edition is required reading for understanding the processes, properties, and practices affecting the soil carbon pool dynamics. New themes are urban soils, minesoils, biochemically recalcitrant compounds, carbonaceous materials, belowground carbon storage by woody plants, and peat soils. R. Lal and R.F. Follett, ed. Softcover,

452 pp., 2009; SSSA. SSSA Spec. Publ. 57. ISBN: 978-089118-850-6. Item B60917. \$70. Members: \$56.



### Challenges and Strategies for Dryland Agriculture

With more than two-thirds of potentially productive drylands threatened by degradation, it is essential that production technology be developed to protect these fragile systems as they become more important in sustaining a growing world population. The technologies presented here have the potential to improve food security in dryland regions. S.C. Rao and J. Ryan, ed. Softcover, 434 pp., 2004; CSSA and ASA. CSA Spec. Publ. 32. ISBN:0-89118-554-2; 978-0-89118-554-3. Item B30466. \$62.50. Members; \$50.



### Improving the Productivity and Sustainability of Rice-Wheat Systems: Issues and Impacts

Rice-wheat rotation in the Indo-Gangetic Plains and Asia is a system where Green Revolution gains are probably not repeatable and must give way to new solutions. J.K. Ladha, J.E. Hill, R.J. Buresh, J. Duxbury, and R.K. Gupta, ed. Softcover, 231 pp., 2003; ASA, CSSA, SSSA. ASA Spec. Publ. 65. ISBN: 0-89118-150-4; 978-0-89118-150-7. Item B40329. \$36. Members: \$28.80.



### Digital Imaging and Spectral Techniques: Applications to Precision Agriculture and Crop Physiology

Producers are looking to achieve a higher degree of hands-on management, and need the latest technological support. Seventeen chapters explore the details of remote sensing as a tool for measuring plant growth and assessing plant stress. The four sections contain articles on digital, magnetic resonance, reflectance, and fluoresence imaging techniques. T. Van Toai, D. Major, M. McDonald, J. Schepers, and L. Tarpley, ed. Softcover, 253 pp., 2003; ASA, CSSA, SSSA.

ASA Spec. Publ. 66. ISBN: 0-89118-152-0; 978-0-89118-152-1. Item B40334. \$87.50. Members: \$70.



### Geochemistry of Soil Radionuclides

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Once again, concerns about the environmental fate and potential health impacts of radionuclides focus interest on their transport in soils and their biological availability. This work addresses risk assessment and cost-effective remediation, highlighting theories for understanding the fate of radionuclides in soils, groundwater, and in potential nuclear waste repositories. P.-C. Zhang and P.V. Brady, ed. Softcover, 252 pp., 2002; SSSA. SSSA Spec. Publ. 59. ISBN: 0-89118-840-1; 978-0-89118-840-7. Item B60906. \$30. Members: \$24.

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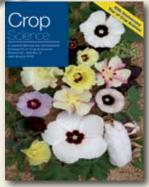
An international journal of agriculture and natural resource sciences, published by the American Society of Agronomy, with articles relating to original research in soil science, crop science, agroclimatology and agronomic modeling, production agriculture, and software. Six issues/ year. Available in print (ISSN 0002-1962), online (ISSN 1435-0645), and CD. \$50 per volume, members; additional media \$10 each. \$673 per volume, libraries and nonmembers; additional media \$90 each. Add \$55 for international postage.

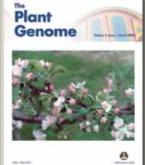
### Journal of Natural Resources and Life Sciences Education

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*Crop Science* is the official journal of Crop Science Society of America. 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; and pest management. *Crop Science* also publishes invited review and interpretation articles on recent advances in crop science. Six issues per year. Available in print (ISSN 0011-183X), online (ISSN 1435-0653), and CD. \$50 per volume, members; additional media \$10 each. \$673 per volume, libraries and nonmembers; additional media \$90 each. Add \$55 for international postage.

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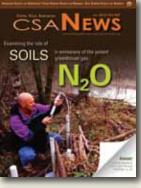
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Crops

Soils

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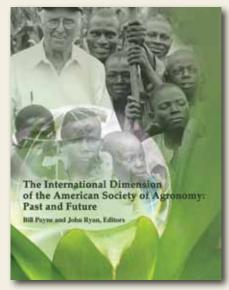
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who prophesize the future of world agronomy in the context of changing diets, food crises, biofuels, fertilizer trends, the emergence of organic agriculture, the underinvestment in agricultural research, and more. Bill Payne and John Ryan, ed. Softcover, 126 pp., 2010. ASA. ISBN: 978-0-89118-176-7. Item B10264. \$30. Members: \$24.



## **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. \$80. Members: \$64.



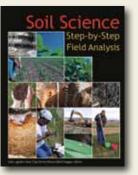
### Response of Crops to Limited Water: Understanding and Modeling Water Stress Effects on Plant Growth Processes

First in the Advances in Agricultural Systems Modeling series, this book compiles the work of world experts, systematically presenting recent knowledge of water stress effects and emphasizing the knowledge synthesis that will move agriculture forward. L.R. Ahuja, V.R. Reddy, S.A. Saseendran, and Qiang Yu, ed. Hardcover, 452 pp., 2008; ASA, CSSA, SSSA. Advances in Agricultural Systems Modeling 1. L.R. Ahuja, series editor. ISBN: 978-0-89118-167-5. Item B40721. \$90. Members: \$72.



### Crops and Man, Second Edition

Jack R. Harlan conceived the prevailing concepts of how the activities of human societies have shaped the evolution of crops used for food, feed, and fiber. He collected and introduced over 12,000 accessions of plants into the United States, while today's food supply now depends largely on about 15 plant species. Jack R. Harlan, author. Hardcover, 2nd ed., 284 pp., 1992; CSSA and ASA. ISBN: 0-89118-107-5; 978-0-89118-107-1. Item B21706. \$34. Members: \$27.20.



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

Natural resource manager, agronomist, land use consultant, educator, environmental consultant.... 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.

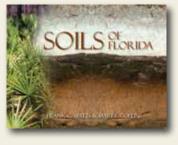
Teferi Tsegaye, ed. Water-resistant softcover with coil binding, 255 pp., 2008; SSSA. ISBN: 978-089118-849-0. Item B60915. \$75. Members: \$60. Also Available as Chapter Downloads at www.SocietyStore.org.



### North American Agroforestry: An Integrated Science and Practice, Second Edition

From large-scale installations of riparian buffers to family-scale forest farming, agroforestry is a technology that has truly "come of age." Creating consumer markets for forest-grown products, reducing nonpoint source pollution, protecting waterfowl habitat, diversifying small farm operations—these are just a few of the ways agroforestry is moving to the forefront. Readers will learn the fundamentals of the main agroforestry practices, with detailed examples and case studies, as well as strategies for addressing the financial viability of new practices.

New topics in this edition include a discussion of tree–crop interactions, agroforestry product markets and marketing, and wildlife benefits. Perfect for the classroom, each chapter includes a set of study questions. H.E. "Gene" Garrett, ed. Hardcover, 400 pp., 2009; ASA. ISBN: 978-0-89118-163-7. Item B10262. \$70. Members: \$56.



### Soils of Florida

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about factors of soil formation and processes of differentiation, Florida's soil orders and soil physiographic regions. Frank C. Watts and Mary E. Collins, authors. Softcover, 88 pp., 2008; SSSA. ISBN: 978-089118-847-6. Item B60914. \$80. Members: \$64.



### Stubble Over the Soil: The Vital Role of Plant Residue

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An in-depth look at no-till applications through the eyes of Chilean farmer, Carlos Crovetto, who was able to renovate his soils and obtain high wheat and corn yields using notill and adequate fertilizers. The soil not only recovered, but became far more productive. This book combines a thorough treatment of the science of soil management with many personal experiences. An enjoyable read or great for the classroom, with color

photographs and a glossary. C. Crovetto Lamarca. Softcover, 247 pp., 1996; ASA. ISBN: 0-89118-131-8; 978-0-89118-131-6. Item B10255. \$40. Members: \$32.

# Education



# Genetics Genetics Control of the second se

### SOIL! Get the Inside Scoop

Get kids excited about the living world of soil! Written for children aged 9–12, 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 pages, 2008; SSSA. ISBN: 978-089118-848-3. Item B60913. \$20. Members: \$16.

### Genetics: A Laboratory Manual

Teach students with 15 exercises, each with background, a step-by-step procedure, and questions. Learning objectives include understanding chromosomes and physical properties of DNA, digestion by restriction enzymes, DNA extraction, gene cloning, southern blotting, regulation of gene expression, transmission genetics, meiosis and crossing over, complementation test, molecular markers and mapping, and population genetics. G. Koliantz and D.B. Szymanski, authors. 2006, moisture-resistant softcover with lay-flat ring binding, 108 pp. ASA and CSSA. ISBN-13: 978-0-89118-555-0, ISBN-10: 0-89118-555-0. Item B21722. \$35. Members: \$28.



### Alfalfa Management Guide

Move your yield from 3 tons to 6 or 9 tons. Emphasizes establishment, production, and harvest. D. Undersander, R. Becker, D. Cosgrove, E. Cullen, J. Doll, C. Grau, K. Kelling, M. Rice, M. Schmitt, C. Sheaffer, G. Shewmaker, and M. Sulc. Full-color, saddle-stitched softcover, 57 pp., 2004. ASA, CSSA, SSSA. Item B40702. \$10. Members: \$8. Inquire about volume discounts.

# Case Studies

### **JNRLSE** Case Studies

A compilation (48 reprints) of the case studies published in the *Journal of Natural Resources and Life Sciences Education* (www.jnrlse.org), 1992-2005, a publication of the American Society of Agronomy. Case teaching creates a vital relationship between a teacher and students. This booklet contains cases that specifically consider decisions around dilemmas involving agricultural management and sustainability with the environment. Preface by Steve Simmons, University of Minnesota, St. Paul. Softcover, 336 pp. Item B10260. \$25. Members: \$20.

### Golf Course Construction/Renovation and Grow-In

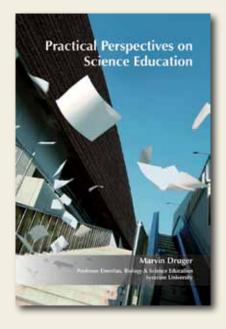
Golf course managers, architects, advisers, extension, and turf professors will appreciate the key concepts in this scripted presentation. C.B. White and J.F. Moore, authors; K. Karnok, ed. Windows and Mac compatible CD-ROM. 153 PowerPoint slides, 2005; CSSA, sponsored by Division C-5, Turfgrass Science. Item B30472. \$40. Members: \$32.

### Roadside Turf Management

Roadside vegetation prevents erosion, reduces runoff, and traps chemicals from the highway surface. Landscape architects, DOT personnel, and turf educators will use this scripted presentation to illustrate the major issues of its management. G. Miller and D. Martin, authors; K. Karnok, ed. Windows and Mac compatible CD. 49 PowerPoint slides, 2006; CSSA, sponsored by Division C-5, Turfgrass Science. Item B30473. \$40. Members: \$32.

### Soil Wetting Agents

Use of soil wetting agents is common, but a lack of basic applied information on soil water repellency and how wetting agents work has kept these topics from being addressed in turf management, soils, and irrigation education. Advising professionals and professors will appreciate this visually interesting presentation. A.R. Templeton, R.A. Moore, and D. Moore, authors; K. Karnok, ed. CD, Windows and Mac compatible. 56 PowerPoint slides, 2005; CSSA, sponsored by Division C-5, Turfgrass Science. Item B30470. \$40. Members: \$32.



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# Agronomy monographs



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"...a window on this dynamic system that is shaping the profile of food in this country" Learn about history and certification, ecological knowledge as the basis of sustainability, biodiversity, cropanimal systems, forages, grain, oil seed, specialty crops, soil nutrient needs, vegetation and pest management, marketing, food security, education and 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. \$70. Members: \$56.



### Tall Fescue for the Twenty-first Century

The story of tall fescue is not just a story for grass scientists, but for scientists. Beginning with the discovery of a green Kentucky pasture, and the spiral of poor animal performance that followed, tall fescue is an ongoing puzzle, with an intricate series of biochemical and physiological processes and interactions among animals, plants, fungi, and the environment. Topics covered include the history and classification of tall fescue; its ecological suitability and adaptation; establishment and management; pests; its utilization, quality, and anti-quality factors; genetic improvement; seed production and marketing; and turf and conservation uses. H.A. Fribourg, D.B. Hannaway, and C.P. West, ed. Hardcover, 540 pp., 2009; ASA, CSSA, SSSA. Agron. Monogr. 53. ISBN: 978-0-89118-172-9. Item B40725. \$150. Members: \$120.



### Modification of Seed Composition to Promote Health and Nutrition

Biotechnology and its advancements offer a realistic means to improve the overall nutritional quality of seeds. This book gathers the current state-of-the-art information on biotechnological improvement of seed composition with a primary focus on improving the nutritional value of human food. Chapters included in this book, contributed by prominent scientists from around the world, will become a valuable resource for students and researchers engaged in modification of seed composition. Hari Krishnan, ed. Hardcover, 328 pp., 2009; ASA, CSSA, SSSA. Agron. Monogr. 51. ISBN: 978-0-89118-169-9. Item B40723. \$105. Members: \$84.



## Sulfur: A Missing Link between Soils, Crops, and Nutrition

Readers will benefit from an up-to-date analysis of how the environmental sulfur cycle relates to specific crops and their nutritional needs. Chapters explore the interplay between sulfur and the dietary needs of animals and humans. Previous books have focused on the molecular biology and biochemistry of sulfur metabolism and have not examined the central role of this nutrient as a link between crop yield and quality, animal feed value, and human diet. Joseph Jez, ed. Hardcover, 335 pp., 2008; ASA-CSSA-SSSA. ISBN: 978-0-89118-168-2. Item B40720. \$90. Members: \$72.











### Nitrogen in Agricultural Systems

Nitrogen may well be the most studied nutrient in agricultural systems, but how well do we understand it and apply that knowledge? New research tools and advanced management concepts are presented from a holistic perspective that emphasizes the complexity of the nitrogen cycle. Accountability and nitrogen budgeting are emphasized because they have a strong bearing on management decisions and environmental implications. J.S. Schepers and W.R. Raun, ed. Hardcover, 984 pp., 2008; ASA, CSSA, SSSA. Agron. Monogr. 49. ISBN: 978-0-89118-164-4. Item B10261. \$150 Members: \$120.

### Irrigation of Agricultural Crops Second Edition

It has been estimated that to meet the needs of population by 2025, the irrigated area must expand more than 20% and irrigated crop yields must improve by 40%. The newest technologies are compiled in comprehensive chapters to facilitate sustainable, economical, and environmentally responsible irrigation. Subjects include the latest on monitoring technology, efficiency, and specific information tailored to individual crops. R.J. Lascano and R.E. Sojka, ed. 2007, Hardcover, 664 pp. ASA, CSSA, SSSA. Agron. Monogr. 30, 2nd ed. ISBN: 978-0-89118-162-0. Item B40719. \$105. Members: \$84.

### Dryland Agriculture, Second Edition

Dryland agriculture is of more consequence now than ever because the world's growing dependence on food produced in dryland areas. This volume takes a world view of dryland production continent by continent. Initial chapters address the principles of dryland farming, and are the basis for the following chapters that address dryland farming issues around the world. G.A. Peterson, P.W. Unger, and W.A. Payne, ed. 2006, Hardcover, 1026 pp., ASA, CSSA, SSSA. Agron. Monogr. 23. ISBN: 978-0-89118-160-6. Item B40714. \$145. Members: \$116.

# Micrometeorology in Agricultural Systems

The survival and success of all living organisms are determined by energy and matter transfers between the upper layers of the soil profile and the lowest levels of its atmosphere. In this monograph 50 experts detail the role that micrometeorology plays in crop production systems and terrestrial ecosystems. J.L. Hatfield and J.M. Baker, ed. 2005, Hardcover, 584 pp., ASA, CSSA, SSSA. Agron. Monogr. 47. ISBN: 978-0-89118-158-3. Item B40712. \$90. Members: \$72.

### Roots and Soil Management:

Interactions between Roots and the Soil

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## Phosphorus: Agriculture and the Environment

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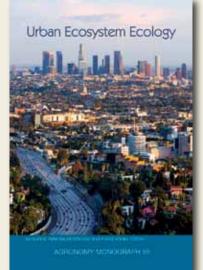
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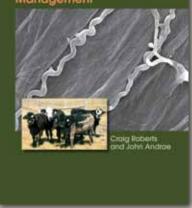


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