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# Journals & Magazines

**New!**



## Crops & Soils

Crops & Soils, the magazine of choice for practicing professionals in agronomy, crops, and soils, is published four times a year (spring, summer, fall, and winter). It focuses on solutions to the daily challenges facing those working in the field and features information on new technology and products, company strategies, CEU articles and quizzes, and regulatory and industry news.

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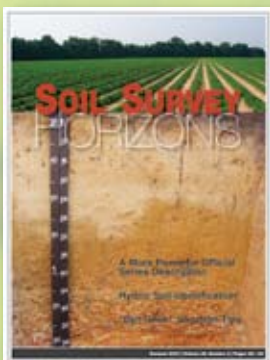


## CSA News

CSA News is the official magazine distributed monthly to the 10,000+ members of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America. Inside you'll find short, easy-to-read summaries of the latest research published in Society journals; science policy news from Washington, DC; news about the Societies, including information about the annual meetings, publications and other products and services offered, and activities of like-minded organizations and fellow members, including

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Soil Survey Horizons is published quarterly by SSSA. This publication is a medium for expressing ideas, problems, and philosophies concerning the study of soils in the field. A newsletter for all soil enthusiasts, it includes articles on hot topics in soil science, technical notes, research updates, soil news, profiles in history, and personal essays from the lives of soil scientists. Available in print.

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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. Cultivar, germplasm, parental line, genetic stock, and mapping population registrations are also published. Six issues per year. Available in print (ISSN 0011-183X), online (ISSN 1435-0653), and CD. Crop Science also publishes the supplement, The Plant Genome, an outlet for the publication of applied plant-genomics research.

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The Journal of Plant Registrations is a new publication of CSSA. In addition to cultivar, germplasm, parental line, genetic stock, and mapping population registrations, JPR will also publish perspective or review papers on historical plant material, the registration process, and related topics. The purpose of the Journal of Plant Registrations is to present new scientific information and impact future research by providing a description of new plant material to

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Journal of Environmental Quality is published by ASA, CSSA, and SSSA. Articles are grouped by subject matter: heavy metals in the environment, plant and environment interactions, organic compounds in the environment, surface water quality, ground water quality, ecosystem restoration, vadose zone processes and chemical transport, waste management, atmospheric pollutants and trace gases, landscape and watershed processes, wetlands and aquatic processes, bioremediation and biodegradation, and ecological

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and Entomological Society of America. JNRLSE is published continuously online (ISSN 1539-1582) with a year-end compilation print copy (ISSN 1059-9053) or CD. [www.jnrlse.org](http://www.jnrlse.org)

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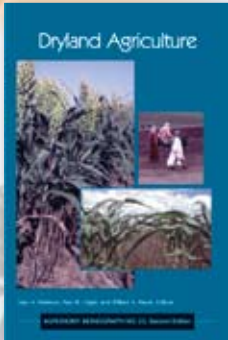


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## Dryland Agriculture

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Dryland agriculture is of more consequence now than ever because the world's dependence on food produced in dryland areas is even greater. In recognition of this, and the fact that global food supply is increasingly interconnected, this volume takes a world view of dryland production continent by continent. The initial chapters of the monograph address the principles that underlie all 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 pages, ASA, CSSA, and SSSA. Agron. Monogr. 23. ISBN: 0-89118-160-1. Item Number: B40714. \$145.00. Members: \$116.00.



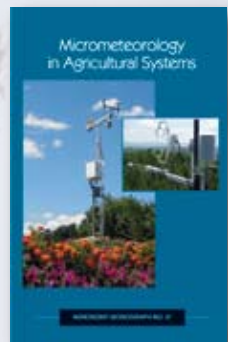
## Roots and Soil Management: Interactions between Roots and the Soil

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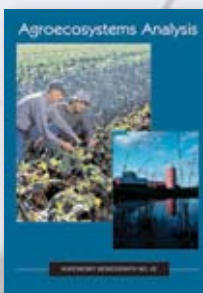
## Phosphorus: Agriculture and the Environment

Phosphorus in the environment has become a hotly contested issue among watershed managers, farmers, property owners, regulatory agencies, and politicians. This monograph is a thorough discussion by 78 experts on topics ranging from the properties and sources of phosphorus to strategies for its management. Learn about sources for agriculture, reactions and cycling in soils, plant nutrition and crop management, animal nutrition, and more. J.T. Sims, A.N. Sharpley, G.M. Pierzynski, D.T. Westermann, M.L. Cabrera, J.M. Powell, T.C. Daniel, and P.J.A. Withers, ed. 2005, Hardcover, 1121 pages, ASA, CSSA, SSSA. Agron. Monogr. 46. ISBN: 0-89118-157-1. Item Number: B40711. \$155.00. Members: \$124.00.



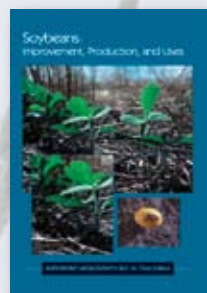
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The survival and success of all living organisms are determined by energy and matter transfers between the upper layers of the soil profile and the lowest levels of its atmosphere. In this monograph 50 experts collaborated to develop 23 chapters detailing the role that micrometeorology plays in crop production systems and terrestrial ecosystems. J.L. Hatfield and J.M. Baker, ed. 2005, Hardcover, 584 pages, ASA, CSSA, and SSSA. Agron. Monogr. 47. ISBN: 0-89118-158-X. Item Number: B40712. \$90.00. Members: \$72.00.



## Agroecosystems Analysis

Leading scientists look beyond the simple production paradigm and present a more holistic approach aimed at ensuring sustainability through understanding the biological, ecological, economic, and social dimensions of agroecosystems. Detailed analyses include multidimensional thinking, multifunctional economic analysis, whole-farm planning, agricultural conservation at the landscape scale, agroecosystem functions that benefit society, and ecological morality. Farmers, researchers, teachers, students, and policymakers will appreciate the diverse examples included, as well as the study questions and glossary. D. Rickerl and C. Francis, ed. Hardcover, 207 pages, 2004; ASA, CSSA, and SSSA. Agron. Monogr. 43. ISBN: 0-89118-153-9. Item Number: B40332. \$90.00. Members: \$72.00.



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## Cool-Season Forage Grasses

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## Managing Soils in an Urban Environment

Understanding the nature and appropriate management of soils for roads, houses, buildings, and other human-engineered artificial environments is of concern to soil scientists, land managers, environmental scientists, and biologists. Challenges include waste disposal, pest management, erosion and sediment control, construction, and minimization of radon risk. The manner in which we manage and preserve this valuable natural resource influences the stability and beauty of our communities, as well as the quality of life and the environment. R.J. Brown, J.H. Huddleston, and J.L. Anderson, ed. Hardcover, 296 pages, 2000; ASA, CSSA, and SSSA. Agron. Monogr. 39. ISBN: 0-89118-143-1. Item Number: B40321. \$50.00. Members: \$40.00.

## Designing Crops for Added Value

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## Not Shown

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Corn and Corn Improvement, Third Edition; G.F. Sprague and J.W. Dudley, ed.; Hardcover; 0-89118-099-0; \$25.00; Members: \$20.00; B40618

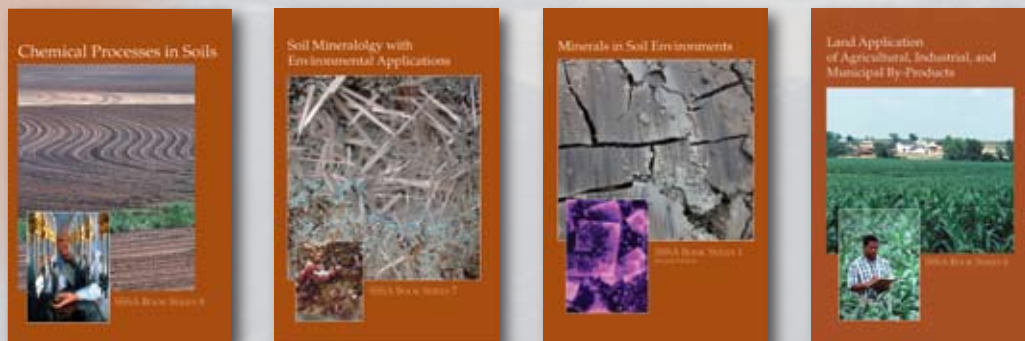
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# Methods of Soil Analysis



## Methods of Soil Analysis. Part 1. Physical and Mineralogical Methods

This is the classic text on physical and mineralogical characteristics of soils and how they relate to each other and to chemical properties. Methods of Soil Analysis, Part 1 provides a uniform set of procedures that can be used by soil scientists, engineers, students and more to conduct precise soil analysis. A. Klute, ed. Hardcover, 1188 pages, 1986; ASA and SSSA. SSSA Book Ser. 5. ISBN: 0-89118-811-8. Item Number B50781. \$65.00. Members: \$52.00.

## Methods of Soil Analysis. Part 2. Microbiological and Biochemical Properties

One of the primary references on analytical methods in soil science, Part 2 of the Methods series will be useful to all biogeoscientists, especially those with an interest in microbiology or bioremediation. R.W. Weaver, S. Angle, P. Bottomley, ed. Hardcover, 1121 pages, 1994; SSSA. SSSA Book Ser. 5. ISBN: 0-89118-810-X. Item Number: B40301. \$65.00. Members: \$52.00.

## Methods of Soil Analysis. Part 3. Chemical Methods

A thorough presentation of analytical methods for characterizing soil chemical properties and processes, Methods, Part 3 includes chapters on Fourier transform infrared, Raman, electron spin resonance, x-ray photoelectron, and x-ray absorption fine structure spectroscopies, and more. D.L. Sparks, ed. Hardcover, 1358 pages, 1996; SSSA and ASA. SSSA Book Ser. 5. ISBN: 0-89118-825-8. Item Number: B40312. \$65.00. Members: \$52.00.

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Part 3 (Chemical Methods)  
Item Number: B40718. \$112.00. Members: \$89.60.





## Guidelines for Analysis and Description of Soil and Regolith Thin Sections

George Stoops, a world expert on thin section analysis, presents the most up-to-date system of analysis and description of soil and regolith materials as seen in thin sections. Scientists and students from archaeology to pedology will appreciate the introduction of micromorphology, the thorough treatment of all features that may be encountered, and especially the convenient system to key out those features. Bulleted lists and set-off definitions make this book work well in class and as a lab reference. Examples are well illustrated with drawings and an accompanying CD with hundreds of images. George Stoops, author; M.J. Vepraskas, ed. Hardcover with CD, 184 pages, 2003; SSSA. ISBN: 0-89118-842-8. Item Number: B60907. \$50.00. Members: \$40.00.



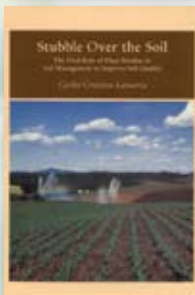
## Humic Substances and Chemical Contaminants

Finally, a thorough exploration of all aspects of humic-anthropogenic and humic-metals interactions. Four sections cover composition and structure, interaction with xenobiotics, metals interaction, and transport and modeling, a topic of prime environmental importance, especially with regard to tracing a contaminant to its source. A companion CD combines computational chemistry, scanning probe microscopy, and animation to visualize the chemical reactivity of humic substances. C. E. Clapp, M.H.B. Hayes, N. Senesi, P.R. Bloom, and P.M. Jardine, ed. Hardcover with CD, 502 pages, 2001; SSSA. ISBN: 0-89118-837-1. Item Number: B60904. \$54.00. Members: \$43.20.



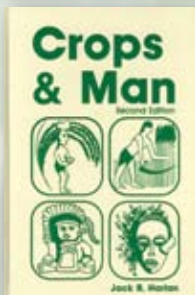
## North American Agroforestry: An Integrated Science and Practice

Because of the environmental consequences of past agricultural and forestry practices that focused exclusively on the economic bottom line, the public now demands greater accountability and the application of more ecologically and socially friendly management approaches. Introductory chapters focus on the ecological foundations and the current status of agroforestry. Additional chapters cover technical aspects of major agroforestry practices: windbreaks, silvopastures, alley cropping, riparian forest buffers, and forest farming. The book concludes with several chapters that evaluate these systems, integrate related socioeconomic factors, and explore the future. H.E. Garrett, W.J. Rietveld, and R.F. Fisher, ed. Softcover, 402 pages, 2000; ASA. ISBN: 0-89118-161-X. Item Number: B10259. \$50.00. Members: \$40.00.



## Stubble Over the Soil: The Vital Role of Plant Residue in Soil Management to Improve Soil Quality

An in-depth look at no-till applications through the eyes of Chilean farmer, Carlos Crovetto. Mr. Crovetto was able to renovate his soils and obtain high wheat and corn yields using no-till and adequate fertilizers. The soil not only recuperated, but became far more productive than the original soil. This book combines a thorough treatment of the science of soil management with many personal experiences. An enjoyable read or great for the classroom, it also includes many color photographs and a glossary. C. Crovetto Lamarca. Softcover, 247 pages, 1996; ASA. ISBN: 0-89118-131-8. Item Number: B10255. \$40.00. Members: \$32.00.



## 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. Harlan collected and introduced over 12,000 accessions of plants into the United States. The world food supply now depends largely on only 12 to 15 plant species. Erosion of diverse gene sources from ancient landraces continues and more effective use needs to be made of germplasm collections in our gene banks. Jack R. Harlan, author. Hardcover, 2nd edition, 284 pages, 1992; CSSA and ASA. ISBN: 0-89118-107-5. Item Number: B21706. \$34.00. Members: \$27.20.

## Not Shown

- Carbon Forms and Functions in Forest Soils; J.M. Kelly and W.W. McFee, ed.  
0-89118-818-5; 978-0-89118-818-6; Hardcover; \$49.00; Members: \$39.20; B60588
- Forage Cell Wall Structure and Digestibility; H.G. Jung, D.R. Buxton, R.D. Hatfield, and J. Ralph, ed.  
0-89118-115-6; 978-0-89118-115-6; Hardcover; \$29.40; Members: \$23.52; B40695
- Genetics and Exploitation of Heterosis in Crops; J.G. Coors and S. Pandey  
0-89118-549-6; 978-089118-549-9; Softcover; \$15.40; Members: \$12.32; B21717



## 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 fluorescence imaging techniques. T. Van Toai, D. Major, M. McDonald, J. Schepers, and L. Tarpley, ed. Softcover, 253 pages, 2003; ASA, CSSA, and SSSA. ASA Spec. Publ. 66. ISBN: 0-89118-152-0. Item Number: B40334. \$87.50. Members: \$70.00.



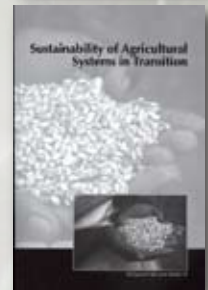
## Improving the Productivity and Sustainability of Rice-Wheat Systems: Issues and Impacts

IRRI, CIMMYT, and ASA-CSSA-SSSA brought together world experts to explore the future of the global food supply in the context of one of the most widely used production systems. 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 to issues of malnutrition, sustainability, and economic challenges. From the farmer-researcher interface to soil physical properties induced by flooding, this book repeatedly merges larger issues with the specifics of agricultural sciences. J.K. Ladha, J.E. Hill, R.J. Buresh, J. Duxbury, and R.K. Gupta, ed. Softcover, 231 pages, 2003; ASA, CSSA, and SSSA. ASA Spec. Publ. 65. ISBN: 0-89118-150-4. Item Number: B40329. \$36.00. Members: \$28.80.



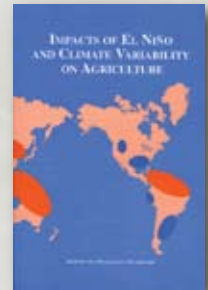
## Sustainability of Agricultural Systems in Transition

Current issues in world agricultural development, and those of tomorrow, are interdisciplinary, multidisciplinary, transnational, and global. Contributions derived from a Societies-World Bank symposium address on-farm, institutional, and policy levels of action in the effort to develop global agriculture sustainably. Experts from every continent provide examples of vision and success, including a section on post Green Revolution India. W.A. Payne, D.R. Keeney, and S.C. Rao, ed. Softcover, 272 pages; 2001; ASA, CSSA, SSSA. ASA Spec. Publ. 64. ISBN 0-89118-149-0. Item Number: B40327. \$48.00. Members: \$38.40.



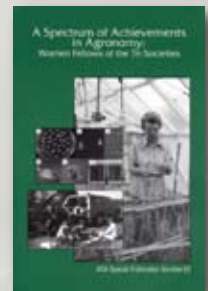
## Impacts of El Nino and Climate Variability on Agriculture

As interest in global climate increases, an understanding of the impact of major weather patterns such as El Nino grows in importance. This special publication takes an international approach to explore the impacts of climate variability on crop production and the potential of using seasonal climate forecasts for enhancing agricultural production. C. Rosenzweig, ed. Softcover, 126 pages, 2001; ASA, CSSA, and SSSA. ASA Spec. Publ. 63. ISBN: 0-89118-148-2. Item Number: B40325. \$36.00. Members: \$28.80.



## A Spectrum of Achievement in Agronomy: Women Fellows of the Tri-Societies

A celebration of role models and pioneers in our Societies who have made significant contributions to science, this publication presents both a historical dimension and a cutting-edge, current-issue perspective. Readers will find insights into the dynamics of soil-plant-environment interactions as well as the complexity of the science we use to serve society and conserve our natural resources. Makes a great gift. C. Rosenzweig, ed. Softcover, 89 pages, 2000; ASA, CSSA, and SSSA. ASA Spec. Publ. 62. ISBN: 0-89118-145-8. Item Number: B40324. \$17.00. Members: \$13.60.



## Not Shown

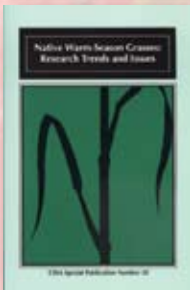
Advances in Carbon Dioxide Effects Research; L.H. Allen Jr., M.B. Kirkham, D.M. Olszyk, and C.E. Whitman, ed. 0-89118-133-4; 978-0-89118-133-0; Softcover; \$25.20; Members: \$20.16; B40314





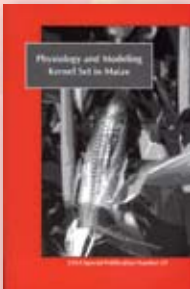
## Challenges and Strategies for Dryland Agriculture

With more than two-thirds of potentially productive drylands threatened by various forms of degradation, it is essential that appropriate production technology be developed to protect these fragile systems as they become more important in sustaining a growing world population. The principles, philosophies, and technologies presented in this publication have the potential to contribute to improve food security and livelihoods for the people in dryland regions of the world. S.C. Rao and J. Ryan, ed. Softcover, 434 pages, 2004; CSSA and ASA. CSSA Spec. Publ. 32. ISBN:0-89118-554-2. Item Number: B30466. \$62.50. Members: \$50.00.



## Native Warm-Season Grasses: Research Trends and Issues

Including native warm-season grasses in pasture systems makes good ecological sense, and this publication explores the benefits and challenges associated with their use. The uneven seasonal distribution of forage production from introduced cool-season species is a primary factor complicating pasture management, while native plant communities are more efficient at capturing solar radiation. K.J. Moore and B.E. Anderson, ed. Softcover, 200 pages, 2000; CSSA and ASA. CSSA Spec. Publ. 30. ISBN: 0-89118-552-6. Item Number: B21720. \$30.00. Members: \$24.00.



## Physiology and Modeling Kernel Set in Maize

Kernel number per plant is the yield component primarily responsible for variation in maize grain yield across environments. The authors highlight recent discoveries regarding the roles of carbohydrate, nitrogen, and phyto-hormone metabolism in controlling kernel formation. It also establishes new and fundamental relationships between canopy development, light interception, ear development and kernel set, and the use of these relationships to model kernel number of maize. M.E. Westgate and K.J. Boote, ed. Softcover, 130 pages, 2000; CSSA and ASA. CSSA Spec. Publ. 29. ISBN: 0-89118-551-8. Item Number: B21721. \$30.00. Members: \$24.00.



## Genetic Improvement of Seed Quality

Dramatic examples of genetic enhancement of seed quality exist relative to hardness, germination, protein quality and quantity, oil, and many other traits. Maintenance of seed quality is also paramount in the preservation of biodiversity. Readers first learn fundamentals of preserving and enhancing good agronomic seed quality as well as specific disease and deterioration mechanisms. Succeeding chapters review applied breeding programs and explore specific crops and their seed quality traits. S.H. Moore and R.W. Yaklich, ed. Softcover, 66 pages, 2000; CSSA. CSSA Spec. Publ. 31. ISBN: 0-89118-553-4. Item Number: B30462. \$20.00. Members: \$16.00.

## Not Shown

Ecology, Production, and Management of *Lolium* for Forage in the USA; F.M. Rouquette, Jr. and L.R. Nelson, ed.  
0-89118-542-9; 978-0-89118-542-0; Softcover; \$17.50; Members: \$14.00; B30457

Linking Genetic Resources and Geography: Emerging Strategies for Conserving and Using Crop Biodiversity; S.L. Greene and L. Guarino, ed.  
0-89118-548-8; 978-0-89118-548-2; Softcover; \$16.80; Members: \$13.44; B21718

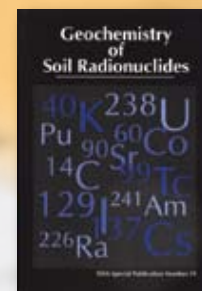
Molecular and Cellular Technologies for Forage Improvement; E.C. Brummer, N.S. Hill, and C.A. Roberts, ed.  
0-89118-547-X; 978-0-89118-547-5; Softcover; \$16.80; Members: \$13.44; B30461

Trefoil: The Science and Technology of the Lotus; P.R. Beuselink, ed.  
ASA-CSSA; 0-89118-550-X; 978-0-89118-550-5; Softcover; \$25.20; Members: \$20.16; B21719



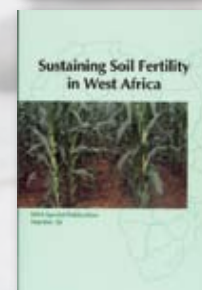
## Geochemistry of Soil Radionuclides

Recurring concerns about the environmental fate and potential health impacts of radionuclides continue to focus interest on understanding the mechanisms controlling their transport in soils and their biological availability. This work builds on both basic science and empirical engineering studies to provide a mechanistic approach to facilitate risk assessment and cost-effective remediation procedures. The authors highlight theories and technologies developed in understanding the fate of radionuclides in soils, groundwater and in potential nuclear waste repositories. P.-C. Zhang and P.V. Brady, ed. Softcover, 252 pages, 2002; SSSA. SSSA Spec. Publ. 59. ISBN: 0-89118-840-1. Item Number: B60906. \$30.00. Members: \$24.00.



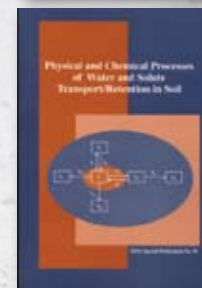
## Sustaining Soil Fertility in West Africa

Food security in West Africa is challenged by complex issues, including rapid population growth, exploitation of nonrenewable resources, and chronic low soil fertility, but in this text experts from world agricultural institutions share their work to provide solutions. Topics covered include soil microorganisms and organic matter, indigenous knowledge, new cropping systems, use of nonorganic fertilizer, livestock, alley cropping, and decision support systems for implementation of integrated nutrient management. G. Tian, F. Ishida, D. Keatinge, ed. Softcover, 321 pages, 2001; SSSA. SSSA Spec. Publ. 58. ISBN: 0-89118-838-X. Item Number: B50803. \$30.00. Members: \$24.00.



## Physical and Chemical Processes of Water and Solute Transport/Retention in Soils

Transport and retention of water, nutrients, and inorganic and organic contaminants in the environment is greatly affected by physical and chemical processes in porous media such as soils. To definitively understand these processes, multiple scales—ranging from the landscape to the molecular—be investigated. Topics include fractal and spatial heterogeneity, molecular models, in situ spectroscopic and microscopic techniques, and inclusion of time-dependent phenomena in predicting solute transport/retention in soils. H.M. Selim and D.L. Sparks, ed. Softcover, 280 pages, 2001; SSSA. SSSA Spec. Publ. 56. ISBN: 0-89118-835-5. Item Number: 60902. \$60.00. Members: \$48.00.



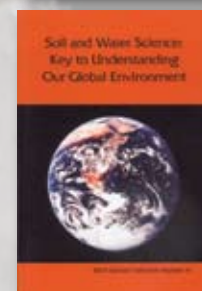
## Soil Color

This classic book focuses on color science and advances in measuring soil color, properties, and genetic significance of important pigmenting agents in soils, as well as geomorphic and geologic factors influencing the formation-inheritance of soil color. Topics include color standards, laboratory measurement, field vs. lab measurement, and several chapters on specific soil constituent and structural influences on color. Students, soil scientists, and researchers interested in soil color will find this publication to be extremely useful. J.M. Bigham and E.J. Ciolkosz, ed. Softcover, 172 pages, 1993; SSSA. SSSA Spec. Publ. 31. ISBN: 0-89118-802-9. Item Number: B60575. \$12.00. Members: \$9.60.



## Soil and Water Science: Key to Understanding Our Global Environment

Soil and water have played a leading role in the development and advancement of civilization. Where sound management practices have been the norm, civilization has flourished, but poor management leads to crisis. This unique blend of history and contemporary issues in soil and water management has created a valuable and fascinating document that should be of interest to all scientists, students, and policymakers. R.S. Baker, G.W. Gee, and C. Rosenzweig, ed. Softcover, 103 pages, 1994; SSSA. SSSA Spec. Publ. 41. ISBN: 0-89118-816-9. Item Number: B60585. \$15.00. Members: \$12.00.

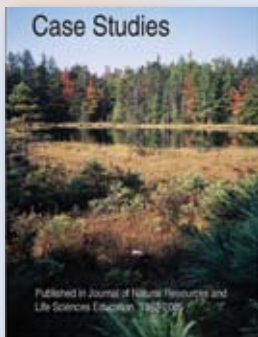


## Not Shown

- Future Prospects for Soil Chemistry; P.M. Huang, D.L. Sparks, and S.A. Boyd, ed.  
0-89118-833-9; 978-0-89118-833-9; Softcover; \$25.20; Members: \$20.16; B60599
- Methods for Assessing Soil Quality; J.W. Doran and A.J. Jones, ed.  
0-89118-826-6; 978-0-89118-826-1; Softcover; \$25.20; Members: \$20.16; B60593
- Pesticides in the Soil Environment: Processes, Impacts, and Modeling; H.H. Cheng, ed.  
0-89118-791-X; 978-0-89118-791-2; Hardcover; \$25.20; Members: \$20.16; B60565
- Quantifying Soil Hydromorphology; M.C. Rabenhorst, J. Bell, and P. McDaniel, ed.  
0-89118-832-0; 978-0-89118-832-2; Softcover; \$29.40; Members: \$23.52; B60597
- Replenishing Soil Fertility in Africa; R.J. Buresh, P.A. Sanchez, and F.G. Calhoun, ed.  
0-89118-829-0; 978-0-89118-829-2; Softcover; \$9.10; Members: \$7.28; B50802
- Soil Chemistry and Ecosystem Health; P.M. Huang, D.C. Adriano, T.J. Logan, and R.T. Checkai, ed.  
0-89118-830-4; 978-0-89118-830-8; Softcover; \$38.50; Members: \$30.80; B60595
- Soil Organic Matter: Analysis and Interpretation; F.R. Magdoff, M.A. Tabatabai, and E.A. Hanlon, Jr., ed.  
0-89118-822-3; 978-0-89118-822-3; Softcover; \$16.80; Members: \$13.44; B60590
- The Contribution of Soil Science to the Development of and Implementation of Criteria and Indicators; M.B. Adams, K. Ramakrishna, and E.A. Davidson, ed.  
0-89118-831-2; 978-0-89118-831-5; Softcover; \$12.60; Members: \$10.08; B60598
- Whole Regolith Pedology; D.L. Cremeens, R.B. Brown, and J.H. Huddleston, ed.  
Softcover; 0-89118-805-3; \$15.00. Members: \$12.00; B60581

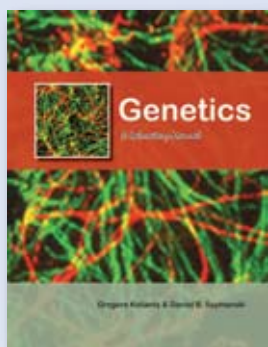


# Teaching



## 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](http://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 pages. Item Number: B10260. \$25.00. Members: \$20.00.



## Genetics: A Laboratory Manual

Students will learn the experimental aspects of genetics through 15 three-hour laboratory exercises with plant and animal organisms. Each exercise consists of background information, a materials list, a step-by-step procedure, and study questions. Learning objectives include an understanding of chromosomes and the physical properties of DNA, digestion by restriction enzymes, methods of DNA extraction, advanced techniques of gene cloning, southern blotting, regulation of gene expression, transmission genetics, meiosis and crossing over, complementation test, molecular markers and mapping, and population genetics. Appendices provide instruction in writing scientific articles and a list of suppliers. G. Koltz and D.B. Szymanski, authors. 2006, moisture-resistant softcover with lay-flat ring binding, 108 pages. ASA and CSSA. ISBN-13: 978-0-89118-555-0, ISBN-10: 0-89118-555-0. Item Number: B21722. \$35.00. Members: \$28.00.



## Alfalfa Management Guide

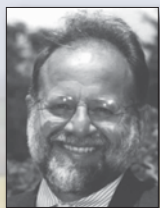
Move your yield from 3 tons to 6 or 9 tons. Emphasizes establishment, production, and harvest. D. Undersander, R. Becker, D. Cosgrove, E. Cullen, J. Doll, C. Grau, K. Kelling, M. Rice, M. Schmitt, C. Sheaffer, G. Shewmaker, and M. Sulc. Full-color, saddle-stitched softcover, 57 pages, 2004. ASA, CSSA, and SSSA. Item Number: B40702. \$10.00. Members: \$8.00. Inquire about volume discounts.



## Corn Silage Production, Management, and Feeding

Designed especially for growers and consultants, this four-color guide focuses on three main areas-production, harvest and storage, and feeding silage. G. Roth and D. Undersander, ed. Softcover, 42 pages, 1995; ASA, CSSA, and SSSA. \$5.00. Item Number: B40306. \$5.00. Members: \$4.00. Inquire about volume discounts.

# Lectures



## Pedro Sanchez - Lecture

Pedro Sanchez, World Food Prize laureate and Co-chair of the UN Millennium Project Task Force on Hunger, gives the 2003 CSSA Klepper Lecture, entitled Hunger in Africa - The Way Forward. Sanchez describes the UN Millennium Project to eliminate poverty and hunger in Sub-Saharan Africa and challenges us to become more involved in this effort. The DVD is a great opportunity to expose students and others to one of the greatest agricultural scientists and leaders of our time. DVD, 2003; CSSA. Item Number: B30467. \$10.00. Members: \$8.00



## Wendell Berry - Renewing Husbandry Lecture

Wendell Berry, well-known author, farmer, and often provocative speaker, shares his beliefs about the value of rural life and the role of the science in our responsibility to the land. Hailed as the most eloquent defender of traditional rural life and small-scale farming, Berry delivers the 2004 CSSA Klepper lecture, rich with imagery from his life-long experience farming in Kentucky. Makes an excellent conversation starter in the classroom or educational outreach activities. DVD, 2004; CSSA. Item Number: B30468. \$20.00. Members: \$16.00.



## Golf Course Construction/Renovation and Grow-In

Long before golfers step onto a pristine green, a team evaluates a unique set of site specifics and implements sophisticated best practices. Golf course managers, architects, advisers, extension, and turf professors will find this scripted PowerPoint presentation to be a convenient resource. The photographs illustrate architecture, rough construction, drainage, agronomic evaluation, root selection, rebuilding vs. resurfacing, irrigation and fertigation, erosion control, bunker construction, planting, renovation, grow-in, and documentation. 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 Number: B30472. \$40.00. Members: \$32.00.



## Roadside Turf Management

The average highway driver appreciates attractive roadside landscaping, but is probably unaware that vegetation management is an important component of highway maintenance. Roadside vegetation prevents erosion, reduces runoff, and traps chemicals from the highway surface. Landscape architects, DOT personnel, and turf educators will use this scripted PowerPoint presentation to illustrate the major issues of turf and landscape management, including turf quality, characteristics, and seed selection by U.S. region, as well as day-to-day management issues, from turf establishment to mowing. 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 Number: B30473. \$40.00. Members: \$32.00.



## Soil Wetting Agents

At long last - a practical learning tool on soil water repellency and soil wetting agents! Use of soil wetting agents is common practice, 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 resource. An easy to use tool for staff training at golf courses and other turf facilities, the PowerPoint format is visually interesting and contains a full set of notes. 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 Number: B30470. \$40.00. Members: \$32.00.



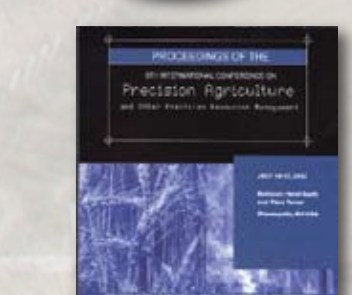
## Turfgrass Physiology

This image collection provides a set of visuals that illustrates several basic physiological concepts as well as their relevance to turf growth and management. With this set of images in hand, most turf management courses, taught at any level, can be offered with enhanced clarity and understanding. These images will also assist students in relating material from their basic physiology course(s) to the practices employed in turf management. R.J. Hull, H. Liu, B. Huang, and F.S. Rossi, authors. K. Karnok, ed. Set of 108 images on CD, 2004; CSSA, sponsored by Division C-5, Turfgrass Science. Item Number: B30465. \$65.00. Members: \$52.00



## Proceedings of the Sixth International Conference on Precision Agriculture

A fully searchable database of more than 200 papers presented on natural resource variability, management systems, crop quality, new applications from around the world, statistics, sampling, modeling, sensors, guidance systems, yield monitoring, applications of remote sensing, information management, profitability, and technology transfer. P.C. Robert et al., ed. CD, 2003; ASA, CSSA, and SSSA. Item Number: B40330. \$14.00. Members: \$11.20.



## Proceedings of the Fifth International Conference on Precision Agriculture

Held July 16-19, 2000 in Bloomington, Minnesota. P.C. Robert, R.H. Rust, and W.E. Larson, ed. CD, 2001; ASA, CSSA, and SSSA. Item Number: B40326. \$14.00. Members: \$11.20.

## Cotton Root Growth & Time Lapse Photography of Root Growth

Two movies show roots responding to different unfavorable soil conditions, including the elongation of the taproot of cotton seedlings with cold or compacted soils and under different soil chemical conditions and details of roots growing in compacted subsoils and under anaerobic conditions. Both are suitable for the general biology student and provide an excellent introduction to how roots grow and explore the soil. Video, 1999; ASA, CSSA, and SSSA. Item number: B30464 (CD), B30463 (VHS). \$10.00. Members: \$8.00.

## ASA-CSSA-SSSA International Annual Meetings Abstracts

The abstracts of volunteer papers and many invitational papers presented at the ASA-CSSA-SSSA International Annual Meetings in a searchable CD format. \$25.00. \$35.00 shipped outside the U.S.



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