JOURNAL OF SOIL AND WATER CONSERVATION The science and art of natural resource management for sustainability



Table of Contents

A SECTION

VIEWPOINT

The urgency of conserving soil and water to address 21st century issues including global warming

Rattan Lal

EDITOR'S DESK

Science and stewardship in a nonmonolithic conservation movement

Mark Anderson-Wilk

BOOK REVIEW

147A Thin on the Ground: A review and reflections

T. Francis Shaxson

IDEAS & INNOVATIONS

Food, energy, water: Conflicting insecurities (and the rare win-wins offered by soil stewardship)

Andrew Campbell



149A

CONSERVATION IN PRACTICE

152A Optimum placement of phosphorus for corn/soybean rotations in a strip-tillage system

Gyles Randall and Jeffrey Vetsch

FEATURES

154A The role of water conservation in drought planning

Cody L. Knutson

162A Beyond T: Guiding sustainable soil management

Craig A. Cox

Training programs and in-the-field guidance

to reduce China's overuse of fertilizer without hurting profitability

Jikun Huang, Ruifa Hu, Jianmin Cao, and Scott Rozelle

TECH TRANSFER BRIEFING

168A Groundwater and stream response times to fertility management changes in pastures

Lloyd B. Owens, Martin J. Shipitalo, James V. Bonta

169A Understanding farmer adoption of agricultural

best management practices

Linda Stalker Prokopy



Site-specific nutrient management training program in China.



On the Cover Cattle grazing in a mountain pasture. Photo by S. Coffman.



RESE		II ~ F	CTI	\sim 14
RF PF	· A R (H 6 F		

- Testing of new silt fence materials: A case study of a belted strand retention fence L.M. Risse, S.A. Thompson, J. Governo, and K. Harris
- **Automated determination of management units for precision conservation** B.K. Gelder, R.M. Cruse, and A.L. Kaleita
- Precision feeding and forage management effects on phosphorus loss modeled at a watershed scale L.T. Ghebremichael, T.L. Veith, J.M. Hamlett, and W.J. Gburek
- Water quality response times to pasture management changes in small and large watersheds L.B. Owens, M.J. Shipitalo, and J.V. Bonta
- Determinants of agricultural best management practice adoption: Evidence from the literature L.S. Prokopy, K. Floress, D. Klotthor-Weinkauf, and A. Baumgart-Getz
- **Determinants of manure application by crop farmers**J.T. Núñez and L. McCann
- Effect of tillage regimens on soil erosion, nematodes, and carrot yield in Prince Edward Island D. Holmstrom, K. Sanderson, and J. Kimpinski
- Comparison of two soil quality indexes to evaluate cropping systems in northern Colorado T.M. Zobeck, A.D. Halvorson, B. Wienhold, V. Acosta-Martinez, and D.L. Karlen