IOURNAL OF SOIL AND WATER



The art and science of natural resource management for sustainability

CONTENTS

EDITOR'S DESK

Creatures in the soil 32A

Mark Anderson-Wilk

YOUR LETTERS

Readers' Forum 33A

HOME FRONT

34A **Professional resilience**

Craig A. Cox

VIEWPOINT

36A Biofuels and rainforests

Clayton W. Ogg

CONSERVATION IN PRACTICE

Technical service, extension, and 37A education on irrigation projects:

A collaborative approach to managing water worth fighting over

Holly Sessoms, Amber Kirkpatrick, Kim Hershberger, and lim Bauder



Gypsum may be used as soil amendment to no-tilled soil to reduce runoff volume and improve water quality related to nutrient runoff, particularly where manure has been surface applied.

IDEAS & INNOVATIONS

An economically and ecologically sound manure treatment and application system 38A

Paul M. Walker and Robert L. Rhykerd

ACROSS DISCIPLINES

Bacterial contamination of water used for holy water in Thailand 39A

Viroj Wiwanitkit and Jamsai Suwansaksri

FEATURES

40A Progressive planning to address multiple resource concerns: Integrated pest management in

Wisconsin orchards

Regina M. Hirsch and Michelle M. Miller

Nitrogen Trading Tool to facilitate water quality credit trading **44A**

Christoph M. Gross, Jorge A. Delgado, Shaun P. McKinney, Harbans Lal, Harris Cover, and Marvin J. Shaffer

Gypsum soil amendment as a management practice in conservation tillage to improve water quality 46A

L. Darrell Norton

IMPLEMENTATION UPDATE

Wetland hydrology at a watershed scale: Dynamic information for adaptive management 49A Megan W. Lang, Greg W. McCarty, and Martha C. Anderson





TECH TRANSFER BRIEFING

- Long-term evaluation of regional erosion control F. Douglas Shields Jr.
- 51A Effects of rotational grazing on carbon dioxide emissions and greenhouse gas credits
 Darrell J. Bosch
- **Effects of multiyear precipitation variations on watershed runoff and sediment yield**Jurgen D. Garbrecht
- Evaluation of weed control practices for profitability and reduction of atrazine concentrations in surface runoff

 Tony Prato and Byung-Joon Woo
- Evaluating the collective performance of best management practices in catchments undergoing active land development

Mark A. Schlautman and John A. Smink

APPLIED RESEARCH

Soil erosion from dryland winter wheat–fallow in a long-term residue and nutrient management experiment in north-central Oregon

J.D. Williams

- **Effects of a regional channel stabilization project on suspended sediment yield** F.D. Shields Jr.
- 70 Multi-year precipitation variations and watershed sediment yield in a CEAP benchmark watershed
 J.D. Garbrecht
- 77 Does current management of storm water runoff adequately protect water resources in developing catchments?

J. Hur, M.A. Schlautman, S.R. Templeton, T. Karanfilm, C.J. Post, J.A. Smink, H. Song, M.A. Goddard, S.J. Klaine, and J.C. Hayes

- Farm returns to carbon credit creation with intensive rotational grazing D.J. Bosch, K. Stephenson, G. Groover, and B. Hutchins
- 99 Integrated analysis of weed control practices for reducing atrazine contamination in an agricultural watershed

T. Prato and B.-J. Woo

