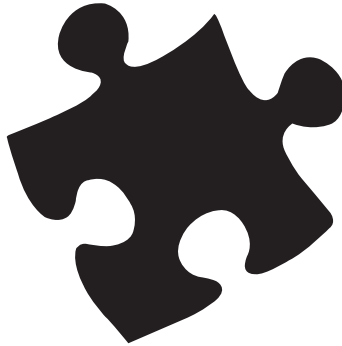


Managing Agricultural Landscapes for Environmental Quality II

Achieving More Effective Conservation



Pete Nowak and Max Schnepf, Editors



Managing Agricultural Landscapes for Environmental Quality II
Achieving More Effective Conservation

Pete Nowak and Max Schnepf, Editors



SOIL
AND WATER
CONSERVATION
SOCIETY

Soil and Water Conservation Society
Ankeny, Iowa

Soil and Water Conservation Society
945 SW Ankeny Road, Ankeny, IA 50023
www.swcs.org

© 2010 by the Soil and Water Conservation Society. All rights reserved.

Printed in the United States of America.

5 4 3 2 1

ISBN 978-0-9769432-8-0

Library of Congress Cataloging-in-Publication Data

Managing agricultural landscapes for environmental quality II : achieving more effective conservation / Pete Nowak and Max Schnepf, editors.

p. cm.

“A second workshop—‘Managing Agricultural Landscapes for Environmental Quality II, Achieving More Effective Conservation’—was subsequently organized and held April 28–30, 2010, in Denver, Colorado.”—Pref.

Includes bibliographical references and index.

ISBN 978-0-9769432-8-0 (pbk.)

1. Agricultural conservation—Congresses. 2. Agricultural landscape management—Congresses. 3. Agriculture—Environmental aspects—Congresses. I. Nowak, Peter J. II. Schnepf, Max, 1941–

S604.5.M36 2011

631.4'5—dc22

2011005827

The Soil and Water Conservation Society (SWCS) is a nonprofit scientific and educational organization that serves as an advocate for natural resource professionals and for science-based conservation policy. SWCS fosters the science and art of soil, water, and environmental management on working lands to achieve sustainability. SWCS members promote and practice an ethic that recognizes the interdependence of people and their environment.



CONTENTS

Foreword / v

Jim Gulliford

Preface / vi

Max Schnepf

**From connecting the dots to threading the needle:
The challenges ahead in managing agricultural landscapes
for environmental quality / 1**

*Peter M. Groffman, Arthur J. Gold, Lisa Duriancik, and
R. Richard Lowrance*

**Vulnerabilities & values: Expanding our understanding of
human aspects of complex watershed processes in the study
of nonpoint-source pollution / 13**

Douglas Jackson-Smith

**Lessons learned from managing vulnerable landscapes during
agrarian transitions in metropolitan regions / 33**

Laura R. Musacchio

Targeting risky management in vulnerable landscapes / 51

Andrew Sharpley, Todd Walter, and Adel Shirmohammadi

**Will good timing lead to better conservation policy?
The opportunity for new research results to inform the next
farm bill / 69**

Jeffrey Zinn and Lisa Duriancik

**Techniques for changing risky behaviors on vulnerable
landscapes / 77**

Catherine L. Kling

**Institutional challenges to managing environmental quality on
agricultural landscapes / 81**

Craig Cox

If not conservation districts, what? / 95

R. Neil Sampson and Robert W. Sampson

**The great awakening: Transitioning from top-down to bottom-up
conservation / 101**

Richard L. Knight

**Achieving effective landscape conservation: Evolving demands,
adaptive metrics / 107**

*Gretchen F. Sassenrath, John D. Wiener, John Hendrickson,
Jeanne Schneider, and David Archer*

**Watershed evaluation of beneficial management practices:
Lessons learned measuring landscape processes in Canada
/ 121**

*D.B. Harker, L. Clearwater, K. Broersma, L. Chow, D. Hebb, D.R. Lapen,
J.J. Miller, T.A. Scott, V. Stuart, E. van Bochove, and J. Yarotski*

Integrating conservation with biofuel feedstock production / 131

Matt Liebman, Matthew J. Helmers, and Lisa A. Schulte

Taking conservation seriously as a wicked problem / 143

Sandra S. Batie

Managing agricultural landscapes for conservation / 157

Pete Nowak

Contributors / 163

Index / 165