RESEARCH

194 No-till development in Chequén Farm and its influence on some physical, chemical, and biological parameters
Carlos C. Crovetto

200 Cover crop effects on soil water relationships
Paul W. Unger and Merle F. Vigil

207 Cover crop impacts on watershed hydrology
Seth M. Dabney

214 Nitrogen and carbon cycling in relation to cover crop residue quality
M. G. Wagger, M. L. Cabrera, and N. N. Ranells

219 Soil properties in no-till corn with different cover crops
M. D. Mullen, C. G. Melhorn, D. D. Tyler, and B. N. Duck

224 Cover crop and soil quality interactions in agroecosystems
D. C. Reicosky and F. Forcella

230 Using winter cover crops to reduce groundwater nitrate contamination
Kenneth W. Staever and Russell R. Brinsfield

241 Sequential NLEAP simulations to examine effect of early and late planted winter cover crops on nitrogen dynamics
Jorge A. Delgado

245 Enhancing soil nitrogen mineralization and corn yield with cover crops
M. E. Jones, R. R. Harwood, N. C. Dehne, J. Smeenk, and E. Parker

249 Effects of temporary and permanent soil cover on grape yield and soil
Andreas Klik, Josef Rosner, and Willibald Loiskandl

254 Cropping system influences on several soil quality attributes
Brian J. Wienhold and Ardell D. Halvorson

259 Spatial analysis of biomass and N accumulation of a winter wheat cover crop grown after a drought-stressed corn crop
Philip J. Bauer, E. John Sadler, and Warren J. Busscher

263 Surface energy balance partitioning over rye and oats cover crops
J. H. Prueger, J. L. Hatfield, and T. J. Sauer

268 Nitrogen availability as affected by ten years of cover crop and tillage systems in southern Brazil
T. J. C. Amado, S. B. Fernandez and J. Mielniczuk

272 Spring-seeded smother plants for weed control in corn and soybean
D. D. Buhler, Keith Kohler, and M. S. Foster

276 Oat and rye overseeded into soybean as fall cover crops in the Midwest
T. J. Johnsen, T. C. Kasper, K. A. Kohler, S. J. Cenek, and S. D. Logsdon

280 Economic analysis of the effects of winter cover crops on no-tillage corn yield response to applied nitrogen

285 Stochastic dominance analysis of winter cover crop and nitrogen fertilizer systems for no-tillage corn

289 Poster abstracts

DEPARTMENTS

186 Editorial
187 Pen Points
188 Books, etc.
191 Upcoming

Cover
A farmer stands in a field of birdsfoot trefoil in Iowa.
Cover photo courtesy of USDA-NRCS

Copyright © 1998 Soil and Water Conservation Society. All rights reserved.
Journal of Soil and Water Conservation