

Ecology, Biological Processes and Plant Interactions

Long- and short-term temperature differences affect organic and inorganic nitrogen availability in forest soils

S. A. Boczulak, B. J. Hawkins, D. G. Maynard, and R. Roy 77–86

Net primary productivity and below-ground crop residue inputs for root crops: Potato (*Solanum tuberosum* L.) and sugar beet (*Beta vulgaris* L.)

M. A. Bolinder, T. Kätterer, C. Poeplau, G. Börjesson, and L. E. Parent 87–93

Composition and Chemical Processes

Phosphorus forms and response to changes in pH in acid-sensitive soils on the Precambrian Shield

S. R. Baker, S. A. Watmough, and M. C. Eimers 95–108

Role of morphological structure and layering of *Sphagnum* and *Tomenthypnum* mosses on moss productivity and evaporation rates

J. D. Goetz and J. S. Price 109–124

Genesis, Landscape Processes and Relationships

Equivalent latitude for prediction of soil development in a complex mapunit

I. R. Whitson 125–137

Contamination and Environmental Stewardship

Influence of mowing and narrow grass buffer widths on reductions in sediment, nutrients, and bacteria in surface runoff

J. J. Miller, T. Curtis, D. S. Chanasyk, and S. Reedyk 139–151

Evaluation of soil reclamation techniques at the Key Lake uranium mine

S. O. Olatuyi and L. A. Leskiw 153–176

Management for Agricultural, Forestry and Urban Uses

Long-term cropping system impact on quality and productivity of a Dark Brown Chernozem in southern Alberta

E. G. Smith, H. H. Janzen, and F. J. Larney 177–186

Long-term response of forest plantation productivity and soils to a single application of municipal biosolids

R. Ouimet, A.-P. Pion, and M. Hébert 187–199

Acknowledgement of Reviewers 201