

**Precision Agriculture and Soil and Water
Management in Cranberry Production**

**Vincent Pelletier, Jacques Gallichand,
Silvio Gumiere, and Jean Caron**

Clay P.L. Vanderleest and William L. Bland

**Clay P.L. Vanderleest, Jean Caron,
and William L. Bland**

M.-E. Samson, J. Fortin, S. Pepin, and J. Caron

**M.-E. Samson, J. Caron, S. Pepin, B. Parys,
and J. Fortin**

**Casey D. Kennedy, Peter Jeranyama,
and Nickolas Alverson**

iii Editorial / Éditorial

**Agriculture de Précision et Gestion de l'Eau et du
Sol en Production de Canneberge**

vii–viii Preface / Préface

SHORT COMMUNICATION

1–4 Impact of drainage problems on cranberry yields: Two case studies

ARTICLES

5–10 Evapotranspiration from cranberry compared with the equilibrium rate

11–19 Water table level management as an irrigation strategy for cranberry (*Vaccinium macrocarpon* Aiton)

20–30 Impact of potassium sulfate salinity on growth and development of cranberry plants subjected to overhead and subirrigation

31–37 Precision and accuracy of time-domain reflectometry and capacitive probes to determine soil electrical conductivity in cranberry production — Technical note

38–45 Agricultural water requirements for commercial production of cranberries

Contents (concluded) / Table de matières (suite et fin)

Diane Bulot, Silvio José Gumiere, Yann Périard, Jonathan A. Lafond, Jacques Gallichand, Marie-Helene Armaly-St-Gelais, and Jean Caron	46–55	Relationships among soil hydraulic properties, drainage efficiency, and cranberry yield
Y. Périard, S. José Gumiere, A.N. Rousseau, M. Caillier, J. Gallichand, and J. Caron	56–70	Assessment of the drainage capacity of cranberry fields: Problem identification using soil clustering and development of a new drainage criterion
Tiphaine Jabet, Jean Caron, and Rémy Lambert	71–81	Payback period in cranberry associated with a wireless irrigation technology
Jean Caron, Vincent Pelletier, Casey D. Kennedy, Jacques Gallichand, Silvio Gumiere, Simon Bonin, William L. Bland, and Steeve Pepin	82–91	Guidelines of irrigation and drainage management strategies to enhance cranberry production and optimize water use in North America