

CANADIAN JOURNAL OF PLANT SCIENCE

Volume 91, Number 4

July 2011

Advanced Statistical Tools and their Applications to Agricultural Research: An Introduction

Preface

Y. Gan and R.-C. Yang 599-601

Structural equation modeling in the plant sciences: An example using yield components in oat

E. G. Lamb, S. J. Shirtliffe, and W. E. May 603-619

Analysis of covariance in agronomy and crop research

R.-C. Yang and P. Juskiw 621-641

Grain

Oat mega-environments and test-locations in Quebec

W. Yan, D. Pageau, J. Frégeau-Reid, J. Lajeunesse, J. Goulet, J. Durand, and D. Marois 643-649

Genetic diversity analysis of 119 Canadian maize inbred lines based on pedigree and simple sequence repeat markers

L. M. Reid, K. Xiang, X. Zhu, B. R. Baum, and S. J. Molnar 651-661

Mycorrhizal colonization, P uptake and yield of older and modern wheats under organic management

A. P. Kirk, M. H. Entz, S. L. Fox, and M. Tenuta 663-667

Forage

Condensed tannin concentrations found in vegetative and mature forage legumes grown in western Canada

N. C. Berard, Y. Wang, K. M. Wittenberg, D. O. Krause, B. E. Coulman, T. A. McAllister, and K. H. Ominski 669-675

Barley and triticale underseeded with a kura clover living mulch: Effects on weed pressure, disease incidence, silage yield, and forage quality

S. M. Kosinski, J. R. King, K. N. Harker, T. K. Turkington, and D. Spaner 677-687

Above-ground net primary production of plains rough fescue [*Festuca hallii* (Vasey) Piper] after a single defoliation on five landform elements

A. Pantel, J. T. Romo, and Y. Bai 689-696

Molecular Biology

Spatial distribution of isoflavones and isoflavone-related gene expression in high- and low-isoflavone soybean cultivars

H. Chen, P. Seguin, S. Jabaji, and W. Liu 697-705

Inheritance and development of EST-SSR marker associated with turnip mosaic virus resistance in Chinese cabbage

Q. Li, H. Tong, Z. Zhang, Z. Zhao, and X. Song 707-715

Weed Science

A preliminary genetic structure study of the non-native weed, common tansy (*Tanacetum vulgare*)

B. M. Clasen, N. G. Moss, M. A. Chandler, and A. G. Smith 717-723

The Biology of Canadian Weeds. 146. *Rhododendron groenlandicum* (Oeder) Kron and Judd

F. Hébert and N. Thiffault 725-738

The Biology of Canadian Weeds. 147. *Onopordum acanthium* L.

P. B. Cavers, M. M. Qaderi, P. F. Threadgill, and M. G. Steel 739-758

Relative freezing tolerance of facultative winter annual weeds

S. Z. H. Cici and R. C. Van Acker 759-763

Other

Impact of reflective groundcover on growth, flowering, yield and fruit quality in Gala apples in New Brunswick

J.-P. Privé, L. Russell, and A. LeBlanc 765-772

Nitrogen fertilization for new plantings of hybrid hazelnuts in the Upper Midwest of the United States of America

L. C. Braun, J. H. Gillman, E. E. Hoover, and M. P. Russelle 773-782

Extra-tall stubble can increase crop yield in the semiarid Canadian prairie

H. Cutforth, B. McConkey, S. Angadi, and D. Judiesch 783-785

Cultivar Descriptions

Summit oat

J. W. Mitchell Fetch, P. D. Brown, N. Ames, J. Chong,
T. G. Fetch, Jr., S. M. Haber, J. G. Menzies, A. Tekauz,
T. F. Townley-Smith, and K. D. Stadnyk 787-791

DIVIDEND VL orchardgrass

S. R. Bowley and D. Hancock 793-795

Muchmore hard red spring wheat

R. M. DePauw, R. E. Knox, T. N. McCaig,
F. R. Clarke, and J. M. Clarke

797-803

Bhishaj soft white spring wheat

H. S. Randhawa, R. S. Sadasivaiah,
R. J. Graf, and B. L. Beres

805-810