

CANADIAN JOURNAL OF PLANT SCIENCE

Volume 94, Number 5

July 2014

Grain

Differences in compositional properties of a hullless barley cultivar grown in 23 environments in eastern Canada

E.-S. M. Abdel-Aal and T.-M. Choo 807–815

Forage

Condensed tannins concentration of selected prairie legume forages as affected by phenological stages during two consecutive growth seasons in western Canada

Y. Li, A. D. Iwaasa, Y. Wang, L. Jin, G. Han, and M. Zhao 817–826

Temperate grass response to extent and timing of grazing

N. B. Alber, G. E. Brink, and R. D. Jackson 827–833

Molecular Biology

Plant growth-promoting and phytopathogen-antagonistic properties of bacterial endophytes from potato (*Solanum tuberosum* L.) cropping systems

B. B. Pageni, N. Z. Lupwayi, Z. Akter, F. J. Larney, L. M. Kawchuk, and Y. Gan 835–844

Expression of cucumber *LOX* genes in response to powdery mildew and defense-related signal molecules

S.-K. Oh, H. A. Jang, J. Kim, D. Choi, Y.-I. Park, and S.-Y. Kwon 845–850

Beef cattle grazing behaviour differs among diploid and tetraploid crested wheatgrasses (*Agropyron cristatum* and *A. desertorum*)

A. D. Iwaasa, P. G. Jefferson, and E. J. Birkedal 851–855

Fruit

Effects of elevated CO₂ and 1-methylcyclopropene on storage-related disorders of Ontario-grown Empire apples

K. L. Deyman, G. Chiu, J. Liu, C. J. Brikis, C. P. Trobacher, J. R. DeEll, B. J. Shelp, and G. G. Bozzo 857–865

Ornamental

Impact of NH₄⁺:NO₃⁻ ratio and nitrogen supply on nitrogen remobilization in potted chrysanthemum grown in a subirrigation system

W. N. MacDonald, M. J. Tsujita, T. J. Blom, and B. J. Shelp 867–880

Vegetable

Photosynthesis, vegetative habit and culinary properties of sage (*Salvia officinalis*) in response to low-light conditions

C. Mapes and Y. Xu 881–889

Plant Pathology

Are early foliar fungicide applications on durum wheat grown in southeast Saskatchewan beneficial in increasing grain productivity?

M. R. Fernandez, W. E. May, S. Chalmers, M. E. Savard, and A. K. Singh 891–903

Response of dry bean white mould [*Sclerotinia sclerotiorum* (Lib.) de Bary, causal organism] to fungicides

K. J. Mahoney, C. M. McCreary, and C. L. Gillard 905–910

Are fungicide applications to control crown rust of oat beneficial?

W. E. May, N. Ames, R. B. Irvine, H. R. Kutcher, G. P. Lafond, and S. J. Shirtliffe 911–922

Inheritance of resistance to the widely distributed race 6 of *Pseudomonas syringae* pv. *phaseolicola* in common bean pinto US14HBR6

R. W. Duncan, R. L. Gilbertson, M. Lema, and S. P. Singh 923–928

Leaf spotting reaction of spring common, durum and spelt wheat, and Kamut under organic management in western Canada

M. R. Fernandez, S. L. Fox, P. Hucl, and A. K. Singh 929–935

Root rot severity and fungal populations in spring common, durum and spelt wheat, and Kamut grown under organic management in western Canada

M. R. Fernandez, S. L. Fox, P. Hucl, A. K. Singh, and F. C. Stevenson 937–946

Pyramiding white mould resistance between and within common bean gene pools

S. P. Singh, H. F. Schwartz, H. Terán, D. Viteri, and K. Otto 947–954

Evaluation of soybean cultivars for resistance to *Phomopsis longicolla* and *Sclerotinia sclerotiorum* using excised leaves

J. X. Zhang and A. G. Xue 955–961

Weed Science

The effect of simulated winter warming spells on Canada fleabane [*Conyza canadensis* (L.) Cronq. var. *canadensis*] seeds and plants

E. Tozzi, E. M. Lyons, and R. C. Van Acker 963–969

Ecozone dynamics of crop residue biomass, macronutrient removals, replacement costs, and bioenergy potential in corn–soybean–winter wheat cropping systems in southern Ontario

R. Nkoa, K. Kendall, and W. Deen 981–993

Other

Camelina seed quality in response to applied nitrogen, genotype and environment

Y. Jiang, C. D. Caldwell, and K. C. Falk 971–980