

Grain

The effect of weeds on soil arbuscular mycorrhizal fungi and agronomic traits in spring wheat (*Triticum aestivum* L.) under organic management in Canada
H. Kubota, S. A. Quideau, P. J. Hucl, and D. M. Spaner 615–627

Effect of heat and precipitation on pea yield and reproductive performance in the field
R. A. Bueckert, S. Wagenhoffer, G. Hnatowich, and T. D. Warkentin 629–639

Forage

The effect of late fall seeding time on the seed production of Italian ryegrass
B. Coulman, H. Loeppky, and M. Entz 641–645

Estimating swath-grazed carrying capacity from plot-scale data
R. R. Doce, V. S. Baron, and A. C. Dick 647–651

Fruit

Phenolic bioactives from developmental stages of highbush blueberry (*Vaccinium corymbosum*) for hyperglycemia management using in vitro models
S. Cheplick, D. Sarkar, P. Bhowmik, and K. Shetty 653–662

Antioxidant properties of lingonberry (*Vaccinium vitis-idaea* L.) leaves within a set of wild clones and cultivars
P. Vyas, N. H. Curran, A. U. Igamberdiev, and S. C. Debnath 663–669

Vegetable

The effects of different water and nitrogen levels on yield, water and nitrogen utilization efficiencies of spinach (*Spinacia oleracea* L.)
J. Zhang, Z. Sha, Y. Zhang, Z. Bei, and L. Cao 671–679

Glucosinolates in seeds, sprouts and seedlings of cabbage and black radish as sources of bioactive compounds
G. Sarikamış, A. Yildirim, and D. Alkan 681–687

Plant Pathology

Induction and resistance against *Fusarium* wilt disease of tomato by using sweet basil (*Ocimum basilicum* L.) extract
S. A. Akladious, G. S. Isaac, and M. A. Abu-Tahon 689–701

Impact of common bacterial blight on the yield, seed weight and seed discoloration of different market classes of dry beans (*Phaseolus vulgaris* L.)
J. G. Boersma, A. Hou, C. L. Gillard, K. B. McRae, and R. L. Conner 703–710

Differentiation of *Corynespora cassicola* and *Cercospora* sp. in leaf-spot diseases of *Hydrangea macrophylla* using a PCR-mediated method
M. T. Mmbaga, M.-S. Kim, L. Mackasmiel, and N. B. Klopfenstein 711–717

Weed Science

Tolerance of identity preserved soybean cultivars to preemergence herbicides
K. D. Belfry, N. Soltani, L. R. Brown, and P. H. Sikkema 719–726

Length of residual activity of saflufenacil/dimethenamid-p in soybean (*Glycine max*)
N. Soltani, D. E. Robinson, R. T. Miller, and P. H. Sikkema 727–733

Application of Technology

***Agrobacterium*-mediated genetic transformation of peanut and the efficient recovery of transgenic plants**
M. Chen, Q. Yang, T. Wang, N. Chen, L. Pan, X. Chi, Z. Yang, M. Wang, and S. Yu 735–744

Other

Simulating forage crop production in a northern climate with the Integrated Farm System Model
G. Jégo, C. A. Rotz, G. Bélanger, G. F. Tremblay, E. Charbonneau, and D. Pellerin 745–757

Influence of long-term manure application on mineral composition of irrigated barley silage
J. J. Miller, B. W. Beasley, C. F. Drury, F. J. Larney, and X. Hao 759–770

Variation in potassium and calcium uptake with time and root depth
T. P. McGonigle and C. A. Grant 771–777

The effects of three pulse crops on a second subsequent crop
S. M. Ross, J. R. King, C. M. Williams, S. M. Strydhorst, M. A. Olson, C. F. Hoy, and K. J. Lopetinsky 779–786

Cultivar Descriptions

AAC Innova general purpose spring wheat
H. S. Randhawa, R. J. Graf, and R. S. Sadasivaiah 787–791

AAC Indus soft white spring wheat
H. S. Randhawa, R. J. Graf, and
R. S. Sadasivaiah 793-797

AAC Foray red spring wheat
P. D. Brown, H. S. Randhawa, J. Mitchell Fetch,
S. L. Fox, D. G. Humphreys, M. Meiklejohn,
D. Green, I. Wise, T. Fetch, J. Gilbert,
B. McCallum, and J. Menzies 799-803

AAC Tenacious red spring wheat
P. D. Brown, H. S. Randhawa, J. Mitchell Fetch,
M. Meiklejohn, S. L. Fox, D. G. Humphreys,
D. Green, I. Wise, T. Fetch, J. Gilbert,
B. McCallum, and J. Menzies 805-810

Erratum 811