

**Alfalfa Leafcutting Bee and Alfalfa Seed Production
Research and Extension Publications - 2011**

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1. Publications in Scientific Journals

Goerzen, D.W. **1991**. Microflora associated with the alfalfa leafcutting bee, *Megachile rotundata* (Fab.) (Hymenoptera: Megachilidae) in Saskatchewan, Canada.
Apidologie 22: 553-561.

Goerzen, D.W., L. Dumouchel, and J. Bissett. **1992**. Occurrence of chalkbrood disease, *Ascosphaera aggregata* Skou, in a native leafcutting bee, *Megachile pugnata* Say (Hymenoptera: Megachilidae).
Can. Entomol. 124: 557-558.

Goerzen, D.W., M.A. Erlandson, and J. Bissett. **1990**. Occurrence of chalkbrood caused by *Ascosphaera aggregata* Skou in a native leafcutting bee, *Megachile relativa* Cresson (Hymenoptera: Megachilidae) in Saskatchewan.
Can. Entomol. 122: 1269-1270.

Goerzen, D.W., M.A. Erlandson, and K.C. Moore. **1990**. Effect of two insect viruses and two entomopathogenic fungi on larval and pupal development in the alfalfa leafcutting bee, *Megachile rotundata* (Fab.) (Hymenoptera: Megachilidae).
Can. Entomol. 122: 1039-1040.

Goerzen, D.W. and D.C. Murrell. **1992**. Effect of fall dichlorvos treatment for control of a chalcid parasitoid on viability of the alfalfa leafcutting bee, *Megachile rotundata* (Fabricius) (Hymenoptera: Megachilidae).
Bee Sci. 2: 37-42.

Goerzen, D.W., K.W. Richards, and G.H. Rank. **1995**. Drifting in populations of the alfalfa leafcutting bee, *Megachile rotundata* (Fab.) (Hymenoptera: Megachilidae).
J. Appl. Entomol. (Z. Angew. Entomol.) 119: 575-579.

Goerzen, D.W. and T.C. Watts. **1991**. Efficacy of the fumigant paraformaldehyde for control of microflora associated with the alfalfa leafcutting bee, *Megachile rotundata* (Fabricius) (Hymenoptera: Megachilidae).
Bee Sci. 1: 212-218.

Goettel, M.S., D.W. Goerzen, and G.M. Duke. **1997**. Pathogenicity of *Ascosphaera larvis* Bissett to larvae of the alfalfa leafcutting bee, *Megachile rotundata* (Fabricius).
Can. Entomol. 129: 1059-1065.

- Goettel, M.S., K.W. Richards, and D.W. Goerzen. **1993**. Decontamination of *Ascospaera aggregata* spores from the alfalfa leafcutting bee (*Megachile rotundata*) nesting material by fumigation with paraformaldehyde. **Bee. Sci. 3: 22-25.**
- Lu, R., D.W. Goerzen, and G.H. Rank. **1996**. Use of RAPD analysis to distinguish immigrant bee species within populations of the alfalfa leafcutting bee, *Megachile rotundata* (Fabricius) (Hymenoptera: Megachilidae). **Bee Sci. 4: 30-37.**
- Lu, R., D.W. Goerzen, and G.H. Rank. **1996**. Use of RAPD analysis as a diagnostic technique for *in situ* identification of *Ascospaera aggregata* and *Ascospaera larvis* in larval cadavers of the alfalfa leafcutting bee, *Megachile rotundata*. **J. Invertebr. Pathol. 68: 78-83.**
- Malhi, S.S. and D.W. Goerzen. **2010**. Improving yield in alfalfa seed stands with balanced fertilization. **J. Plant Nutrition 33: 2157-2166.**
- Mayer, D.F., J.D. Lunden, D.W. Goerzen, and B. Simko. **1991**. Fumigating alfalfa leafcutting bee, *Megachile rotundata* (Fab.), nesting material for control of chalkbrood disease. **Bee Sci. 1: 143-146.**
- Rank, G.H. and D.W. Goerzen. **1981**. Native leafcutting bee species and associated parasites in commercial hives in Saskatchewan, Canada. **Apidologie 12: 211-220.**
- Rank, G.H. and D.W. Goerzen. **1982**. Effect of incubation temperatures on emergence of *Megachile rotundata* (Hymenoptera: Megachilidae). **J. Econ. Entomol. 75: 467-471.**
- Rank, G.H., D.W. Goerzen, and J.H. Gerlach. **1989**. Crossed immuno-electrophoresis of major protein antigens during pupation of the leafcutting bee, *Megachile rotundata*. **Apidologie 20: 139-147.**
- Soroka, J.J., D.W. Goerzen, K.C. Falk, and K.E. Bett. **2001**. Alfalfa leafcutting bee (Hymenoptera: Megachilidae) pollination of oilseed rape (*Brassica napus* L.) under Isolation tents for hybrid seed production. **Can. J. Plant Sci. 81: 199-204.**

2. Extension Publications

- Goerzen, D.W. **Leafcutting bee foliar moulds and producer health.**
Sask. Agric. & Food / Alfalfa Seed News Ext. Publ. 1p.
(August, 1988).
- Goerzen, D.W. **Foliar moulds in alfalfa leafcutting bees.**
Sask. Agric. Dev. Fund Ext. Publ. (ISBN 0-88656-534-0) 4pp.
(December, 1989).
- Goerzen, D.W. **Paraformaldehyde fumigation of alfalfa leafcutting bee nest material.**
Sask. Agric. Dev. Fund Ext. Publ. (ISBN 0- 88656-556-1) 2pp.
(February, 1992).
- Goerzen, D.W. **Alfalfa leafcutting bee moulds and methods for their control.**
Sask. Agric. Dev. Fund Ext. Publ. (ISBN 0-88656-586-3) 4pp.
(March, 1992).
- Goerzen, D.W. **Paraformaldehyde fumigation for surface decontamination of alfalfa leafcutting bee cells.**
Sask. Alfalfa Seed Prod. Assoc. Ext. Publ.1993-01 (ISBN 0-88656-577-4), 2pp.
(October, 1993).
- Goerzen, D.W. **Alfalfa leafcutting bee mortality associated with use of dichlorvos for chalcid parasite control.**
Sask. Alfalfa Seed Prod. Assoc. Ext. Publ.1995-01 (ISBN 0-88656-636-3), 4 pp.
(February, 1995).
- Goerzen, D.W. **Microorganisms associated with the alfalfa leafcutting bee and their potential impact on producer health.**
Sask. Alfalfa Seed Prod. Assoc. Ext. Publ.1995-02 (ISBN 0- 88656-625-8), 4 pp.
(May, 1995).
- Goerzen, D.W. **Stored product pests in Saskatchewan alfalfa leafcutting bee populations.**
Sask. Alfalfa Seed Prod. Assoc. Ext. Publ. 2000-02 (ISBN 0-88656-720-3), 2 pp.
(November, 2000).
- Goerzen, D.W. **New alfalfa leafcutting bee incubator design for optimizing parasite control.**
Sask. Alfalfa Seed Prod. Assoc. Ext. Publ. 2001-01 (ISBN 0-88656-730-0), 2 pp.
(February, 2001).
- Goerzen, D.W. **Chalkbrood disease in alfalfa leafcutting bee populations.**
Sask. Alfalfa Seed Prod. Assoc. Ext. Publ. 2001-02 (ISBN 0-88656-728-9), 2 pp.
(May, 2001).
- Goerzen, D.W. **Alfalfa leafcutting bee parasite control with pyrethrin aerosols.**
Sask. Alfalfa Seed Prod. Assoc. Ext. Publ. 2001-03 (ISBN 0-88656-732-7), 2 pp.
(May, 2001).

Goerzen, D.W. editor / **Alfalfa leafcutting bee management and alfalfa seed production manual.**
Sask. Alfalfa Seed Prod. Assoc. Ext. Publ. 2007-01 (ISBN 0-88656-694-0), 925 pp.
(June, 2007).

Goerzen, D.W. **Parasite control in alfalfa leafcutter bee populations - 2011.**
Sask. Alfalfa Seed Prod. Assoc. - Misc. Ext. Publ. 2011X-03, 3pp.
(May, 2011).

Goerzen, D.W. **SASPDC / Alfalfa leafcutter bee management FAQ.**
Sask. Alfalfa Seed Prod. Dev. Comm. - Misc. Ext. Publ. 2011X-01, 6 pp.
(May, 2011).

Goerzen, D.W. **SASPDC / Alfalfa insect pest management FAQ.**
Sask. Alfalfa Seed Prod. Dev. Comm. - Misc. Ext. Publ. 2011X-02, 2 pp.
(May, 2011).

Goerzen, D.W. **SASPDC / Alfalfa disease management FAQ.**
Sask. Alfalfa Seed Prod. Dev. Comm. - Misc. Ext. Publ. 2011X-03, 2 pp.
(May, 2011).

Goerzen, D.W. **Fall and winter management of alfalfa leafcutter bees - 2010.**
Sask. Alfalfa Seed Prod. Assoc. - Misc. Ext. Publ. 2010X-04, 3pp.
(November, 2010).

Goerzen, D.W. and S.C. Mueller. **Alfalfa leafcutting bee alternative crop pollination research in central California.** Proc. SASPA 2005 Saskatchewan Alfalfa Seed Conference (Saskatoon, SK), **January 13-14, 2005 (pp. 19-23)**; D.W. Goerzen, editor.

Murrell, D.C. and D.W. Goerzen. **Chalkbrood control in alfalfa leafcutting bees.**
Sask. Agric. and Food Ext. Publ. (ISBN 0-88656-598-7), 4 pp.
(April, 1994).

Murrell, D.C. and D.W. Goerzen. **Alfalfa seed and leafcutting bee production in Saskatchewan.**
Sask. Alfalfa Seed Prod. Assoc. Ext. Publ. 1997-01 (ISBN 8-88656-669-X), 11 pp.
(June, 1997 / revised and reprinted September, 2001).

Myhre, C.D. and D.W. Goerzen. **Currently registered herbicides for use in seedling alfalfa and in established alfalfa grown for seed production - 2011**
Sask. Alfalfa Seed Prod. Assoc. - Misc. Ext. Publ. 2011X-01, 2 pp.
(May, 2011).

Soroka, J.J. and D.W. Goerzen. **Alfalfa weevil and other legume weevils in Saskatchewan.**
Sask. Alfalfa Seed Prod. Assoc. Ext. Publ. 2002-01 (ISBN 0-88656-715-7), 2pp.
(May, 2002 / revised and reprinted February, 2009).

Soroka, J.J. and D.W. Goerzen. **Alfalfa seed insect pest management - 2011.**
Sask. Alfalfa Seed Prod. Assoc. - Misc. Ext. Publ. 2011X-02, 7 pp.
(May, 2011).