

**Alfalfa Leafcutting Bee and Alfalfa Seed Production  
Research and Extension Publications - 2016**

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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. **Fall and winter management of alfalfa leafcutter bees - 2015.**  
Sask Leafcutters Assoc. - Misc. Ext. Publ. 2015X-03, 3pp.  
**(November, 2015).**
- Goerzen, D.W. **Alfalfa leafcutter bee management FAQ (May - 2016).**  
Sask. Alfalfa Seed Prod. Dev. Comm. - Misc. Ext. Publ. 2016X-01, 6 pp.  
**(May, 2016).**
- Goerzen, D.W. **Alfalfa insect pest management FAQ (May - 2016).**  
Sask. Alfalfa Seed Prod. Dev. Comm. - Misc. Ext. Publ. 2016X-02, 3 pp.  
**(May, 2016).**
- Goerzen, D.W. **Alfalfa disease management FAQ (May - 2016).**  
Sask. Alfalfa Seed Prod. Dev. Comm. - Misc. Ext. Publ. 2016X-03, 3 pp.  
**(May, 2016).**
- Goerzen, D.W. **Parasite control in alfalfa leafcutter bee populations - 2016.**  
Sask Leafcutters Assoc. - Misc. Ext. Publ. 2016X-02, 3pp.  
**(May, 2016).**
- 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.
- Goerzen, D.W. and J.J. Soroka. **Alfalfa seed insect pest management - 2016.**  
Sask Leafcutters Assoc. - Misc. Ext. Publ. 2016X-01, 7 pp.  
**(May, 2016).**
- 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 - 2012.**  
Sask Leafcutters Assoc. - Misc. Ext. Publ. 2012X-01, 2 pp.  
**(May, 2012).**
- 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).**