

**Lynne Carpenter-Boggs, Ph.D.**  
Publications list, January 2013  
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**Professional Articles, Refereed**

Asterisk "\*" indicates article in which Carpenter-Boggs is a senior author.

- \*Piaskowski, J., B. Weddell, L. Carpenter-Boggs. (in review) Evaluation of a symposium for dryland organic agriculture in the Pacific Northwest. Journal of Extension.
- Abi-Ghanem, R., L. Carpenter-Boggs, R. Koenig, J. Ullman, K. Murphy, C. Pannkuk. 2013. Agricultural resource availability in Iraq: Insight from an Iraqi extension revitalization project. Journal of International Agricultural and Extension Education.
- \*Biabani, A., L. Carpenter-Boggs. 2012. Study of characteristics in the global chickpea collection. Russian Agricultural Sciences. 38: 114-117.
- Biabani, A., L. Carpenter Boggs, K. Natasha, U. Morad. 2012. Microscopic morphology of nitrogen fixing paranodules on wheat roots. African Journal of Biotechnology. 11:2971-2976.
- \*Abi-Ghanem, R., L. Carpenter-Boggs, J.L. Smith, G. J. Vandemark. 2012. Nitrogen fixation by US and Middle Eastern chickpeas with commercial and wild Middle Eastern inocula," ISRN Soil Science doi:10.5402/2012/981842.
- TerAvest, D., J.L. Smith, L. Carpenter-Boggs, D. Granatstein, L. Hoagland, J.P. Reganold. 2011. Soil carbon pools, nitrogen supply, and tree performance under several groundcovers and compost rates in a newly planted apple orchard. HortScience 46: 1687–1694.
- \*Reeve, J.R., L. Carpenter-Boggs, H. Sehmsdorf. 2011. Sustainable agriculture, a case study of a small Lopez Island Farm. Agricultural Systems 104:572-579.
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- \*Abi-Ghanem, R., L. Carpenter-Boggs, J.L. Smith. 2010. Cultivar effects on nitrogen fixation in peas and lentils. Biology and Fertility of Soils 47:115-120.
- \*Reeve, J.R., L. Carpenter-Boggs, J.P. Reganold, A.L. York, and W.F. Brinton. 2010a. Influence of biodynamic preparations on compost development and resultant compost extracts on wheat seedling growth. Bioresource Technology 101:5658-5666.
- \*Reeve, J., C.W. Schadt, L. Carpenter-Boggs, S. Kang, J. Zhou, J.P. Reganold. 2010b. Effects of soil type and farm management on soil ecological functional genes and microbial activities. The ISME Journal 4:1099-1107.
- \*Reganold J.P., P.K. Andrews, J. Reeve, L. Carpenter-Boggs, C. Schadt, J.R. Alldredge, C. Ross, N. Davies, J. Zhou. 2010. Fruit and soil quality of organic

- and conventional strawberry agroecosystems. PLoS ONE 5(9): e12346. doi:10.1371/journal.pone.0012346.
- Teravest, D., J.L. Smith, L. Carpenter-Boggs, L. Hoagland, D. Granatstein, J.P. Reganold. 2010. Influence of Orchard Floor Management and Compost Application Timing on N Partitioning in Organically Managed Apple Trees. HortScience 45:637-642.
- \*Abi-Ghanem, R., L. Carpenter-Boggs, R. Koenig, C. Pannkuk, W. Pan, R. Parker. 2009. Extension Education for Dryland Cropping Systems in Iraq. Journal of Natural Resources and Life Sciences Education 38:133-139.
- \*Price, C., L. Carpenter-Boggs, J. Goldberger. 2009. On-farm Mortality Composting in Washington State: Outreach and Producer Survey. Journal of Extension 47:6RIB8.
- Reeve, J.R., J.L. Smith, L. Carpenter-Boggs, J.P. Reganold. 2009. Glycine, nitrate and ammonium uptake by classic and modern wheat varieties in a short-term microcosm study. Biology and Fertility of Soils 45:723-732.
- \*Hoagland, L.A., L. Carpenter-Boggs, D.M. Granatstein, M. Mazzola, J.L. Smith, F. Peryea, J.P. Reganold. 2008a. Orchard floor management effects on nitrogen fertility and biological soil quality in a newly established organic apple orchard. Biology and Fertility of Soils 45:11-18.
- Hoagland, L.A., L. Carpenter-Boggs, J.P. Reganold, M. Mazzola. 2008b. Role of native soil biology in Brassicaceae seed meal induced weed suppression. Soil Biology & Biochemistry 40:1689-1697.
- Reeve, J., J.L. Smith, L. Carpenter-Boggs, J.P. Reganold. 2008. Soil-based cycling and differential uptake of amino acids by three species of strawberry (*Fragaria* spp.) plants. Soil Biology & Biochemistry 40:2547-2522.
- \*Liebig, M., L. Carpenter-Boggs, J. Johnson, S. Wright, N. Barbour. 2006. Cropping System Effects on Soil Biological Characteristics in the Great Plains. Renewable Agriculture and Food Systems 21:36-48.
- \*Peever, T.L., L. Carpenter-Boggs, L.W. Timmer, L.M. Carris, A. Bhatia. 2005. Citrus black rot is caused by phylogenetically distinct lineages of *Alternaria alternata*. Phytopathology 95:512-518.
- \*Reeve, J.R., L. Carpenter-Boggs, J.P. Reganold, A.L. York, G. McGourty. 2005. Soil and Winegrape Quality in Biodynamic and Organically Managed Vineyards. Journal of Enology and Viticulture 56:367-376.
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- \*Pikul, J.L., Jr., L. Carpenter-Boggs, M.F. Vigil, W.E. Riedell, T.E. Schumacher. 2001. Crop yield and soil condition under ridge and chisel-plow tillage in the northern corn belt, USA. Soil and Tillage Research 60:21-33.
- \*Carpenter-Boggs, L., A.C. Kennedy, J.P. Reganold. 2000a. Organic and biodynamic management: effects on soil biology. Soil Science Society of America Journal 64:1651-1659.
- \*Carpenter-Boggs, J.L. Pikul, Jr., M.F. Vigil, W.E. Riedell. 2000b. Soil nitrogen mineralization influenced by crop rotation and nitrogen fertilization. Soil Science Society of America Journal 64:2038-2045.
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- \*Carpenter-Boggs, L., J.P. Reganold, A.C. Kennedy. 2000d. Biodynamic preparations: short-term effects on crops, soils, and weed populations. American Journal of Alternative Agriculture 15:96-104.
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- \*Khalil, S., L. Carpenter-Boggs, T.E. Loynachan. 1994. Procedure for rapid recovery of VAM fungal spores from soil. Soil Biology and Biochemistry 26:1587-1588.

### **Book Chapters**

- \*Carpenter-Boggs, L. 2005. Supporting Soil Life to Enhance Fertility, pp. 51-55 in *The Organic Companion*, J. Wallace (ed.), Canadian Organic Growers, Inc.

### **Professional Articles, non-refereed**

- \*Abi-Ghanem R., L. Carpenter-Boggs, R. Koenig, C. Pannkuk, W. Pan, B. Parker. 2009. U.S. Universities Dig In to Support Iraqi Agriculture. CSA News 54:32-33.
- \*Carpenter-Boggs, L. 2005. Diving into Compost Tea. Biocycle 46:61-62.

### **Abstracts**

- \*Abi-Ghanem, R., L. Carpenter-Boggs, J.L. Smith, G. Vandemark. 2010. Nitrogen Fixation by U.S. and Middle Eastern Chickpeas with Commercial or Wild Middle Eastern Inoculum. Abstract 59015. Agronomy Society of America 2010 International Annual Meetings, Long Beach, CA. <http://a-c-s.confex.com/crops/2010am/webprogram/Paper59015.html>.

- \*Abi-Ghanem, R., L. Carpenter-Boggs, J.L. Smith. 2009. Optimizing Nitrogen Fixation by Crop-Rhizobial Interactions in Peas and Lentils. Abstract 53057. Agronomy Society of America 2009 International Annual Meetings, Pittsburgh, PA. <http://a-c-s.confex.com/crops/2009am/webprogram/Paper53057.html>.
- \*Abi-Ghanem, R., C. Pannkuk, L. Carpenter-Boggs, W. Pan, R. Koenig, B. Parker. 2008. Extension Education for Dryland Cropping Systems in Iraq. Abstract 539-8. Agronomy Society of America 2008 International Annual Meetings, Houston, TX. <http://a-c-s.confex.com/crops/2008am/webprogram/Paper41713.html>.
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- Hoagland L., K. Murphy, L. Carpenter-Boggs, S. Jones. 2008. Improving nutrient uptake in wheat through cultivar specific interaction with Azospirillum. In: Cultivating the future based on science: 2nd conference of the international society of organic agriculture research ISOFAR, Modena, Italy. <http://orgprints.org/12325/>.
- \*Bonds, N., L. Carpenter-Boggs, S.E. Ullrich, J.R. Davenport, S. Verhey. 2007. Performance trials of composted mint distillery waste. *HortScience* 42:989.
- \*Hoagland, L., L. Carpenter-Boggs, D. Granatstein, J.L. Smith, F. Peryea, J.P. Reganold. 2006. Nitrogen and carbon cycling and partitioning in managed understories of organic apples. *HortScience* 41:1032.
- McGourty, G., J.R. Reeve, L. Carpenter-Boggs, J.P. Reganold, A.L. York. 2005. Soil and winegrape quality in biodynamic and organically managed vineyards. International Workshop on Advances in Grapevine and Wine Research Book of Abstracts. International Society for Horticultural Science, Venosa, Italy. p. 169.
- \*Carpenter-Boggs, L., L. M. Carris, L. Castlebury. 2003. Multi-locus phylogenetic analysis of *Tilletia* species infecting hosts in grass subfamily Pooideae. *Inoculum* 54:15.
- Wang, X., W. Kim, L. Carpenter-Boggs, L. M. Carris. 2003. Mating system and genetic differentiation in *Tilletia fusca* populations from *Vulpia microstachys* and *V. octoflora*. *Phytopathology* 93: S89.

### **Experiment Station Bulletins**

- \*Carpenter-Boggs, L., J.L. Pikul, Jr. 2000. Soil nitrogen mineralization influenced by crop rotation and incubation temperature. PR 99-28. In 1999 Soil Water Science Research, Ag. Exp. Sta. Pub. TB99. South Dakota State Univ. Brookings, SD.
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- Riedell, W.E., J.L. Pikul Jr., L. Carpenter-Boggs. 1999. Crop rotation improves soil fertility and plant mineral nutrition. PR 98-39. In 1998 Soil Water Science Research, Ag. Exp. Sta. Pub. TB99. South Dakota State Univ. Brookings, SD.

## **Extension Bulletins**

- \*Weddell, B., L. Carpenter-Boggs, S. Higgins. 2012. Global Climate Change. WSU Extension Publication FS069E.
- \*Price, C., L. Carpenter-Boggs. 2008. On-Farm Livestock Mortality Composting. WSU Extension Publication EB2031E.
- \*Carpenter-Boggs, L., R.F. Padula, B. Head, G. Lemme, M.A. Scharf, D. Carter. 1999. Composting Animal Mortality: A Resource Notebook for Producers and Educators. Minnesota Reports No. 99.1.02.1 of the Minnesota Agricultural Experiment Station.

## **Proceedings**

- \*Carpenter-Boggs, L. J.P. Reganold, J.R. Reeve, P.K. Andrews. 2011. Organic management improves soil health and strawberry nutritive value. Proceedings of the Western Nutrient Management Conference, Reno, NV.
- \*Crosby, C., L. Carpenter-Boggs, S. Higgins, N. Khadduri. 2010. National Proceedings, Forest and Conservation Nursery Associations, 2009, USDA Forest Service Rocky Mountain Research Station RMRS-P-62, p. 32.
- \*Carpenter-Boggs, L., D. Huggins, S. Bramwell. 2009. Mixed Crop-Livestock Farming Systems for the Inland Northwest U.S., Washington. EW06-066 Western Region SARE Pacific Northwest Conference. <http://wsare.usu.edu/conf/pnw/?sub=pos>.
- \*Bramwell, S., L. Carpenter-Boggs, D. Huggins, J.P. Reganold. 2008. Challenges and benefits of integrating livestock and organic grain production in the Inland Northwest, U.S. Proceedings of the 1<sup>st</sup> Scientific Conference of the 8<sup>th</sup> European Summer Academy on Organic Farming, Lednice na Moravě, Czech Republic, September 3–5, 2008.
- \*Carpenter-Boggs, L. 2008. The Science Behind Compost Teas and Biodynamics. Washington State Horticultural Association proceedings, 2007.
- \*Carpenter-Boggs, L. 2007. Composts and Teas as Organic N Sources. Washington State Horticultural Association proceedings, 2006, pp.67-68.
- \*Carpenter-Boggs, L., C. Perillo. 2007. Agricultural and Food Systems (AFS) Degree Program and the Major in Organic Agriculture. Washington State Horticultural Association proceedings, 2006, pp. 64-66.
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- \*Carpenter-Boggs, L. 2003. Biodynamics and Compost Tea. Proceedings of the 2002 Meeting of the Pacific Northwest Vegetable Association. Nov. 21-22, 2002. Pasco, WA.
- Johnson, J., L. Carpenter-Boggs, M. Lindstrom. 2003. Humic acid and aggregate stability in amended soils. 4th North Central Region Symposium on Natural Organic Matter in Soils and Water. p. 21.
- \*Liebig, M., L. Carpenter-Boggs, J. Johnson, S. Wright, N. Barbour. 2003. Soil Biological Characteristics of Contrasting Cropping Systems in the Great Plains: Summary of Preliminary Findings. Proceedings of Dynamic Cropping Systems: Principles, Processes, and Challenges.
- \*Carpenter-Boggs, L., J. Reeve, J.P. Reganold. 2002. Biodynamic compost preparations speed composting and increase nitrogen. Proceedings of the Northwest Symposium on Organic and Biologically Intensive Farming. Nov. 8, 2002, Yakima, WA.
- \*Carpenter-Boggs, L. 1999. Soil fertility research for low-input and organic farming systems: U.S. projects, perspectives. Proceedings of the Conference on Exploring Organic Alternatives. Univ. Saskatchewan Extension Division, Saskatoon, Saskatchewan.
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### **Depositions to Public Databases**

- \*155 DNA sequences entered into NCBI Nucleotide Genbank. Accessions AY293857.1 – AY293882.1, AY295020.1 – AY295072.1, AY629207.1 – 629234.1, AY631425.1 – 631474.1.

### **Video Programs and Webpages**

- \*Granatstein, D.M., L. Carpenter-Boggs, D.R. Huggins. 2010. Greenhouse Gases and Agriculture: Where Does Organic Farming Fit? National webinar eOrganic <http://www.extension.org/pages/30835/greenhouse-gases-and-agriculture:-where-does-organic-farming-fit-webinar>.
- \*Carpenter-Boggs, L. 2010. The Science Behind Biodynamics. eOrganic webpage. <http://eorganic.info/node/4181>.

### **Other Scholarly Work**

Beckley, G., T. Bialic, L.A. Carpenter-Boggs, D. Coon, Jr., J. Huesby, T. Lamar, J.S. Neibergs, M. Robinette, A. Schwartz, S.M. Vanvleet, D.D. Nelson. 2009. Beefing Up the Palouse – Feasibility Study of Using CRP as a Grazing Resource. Final Ag Pilots project report, Ruckelshause Center.

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