

Selected Research Publications Since 2003.

- Mitchell, S.M., J.L. Ullman, A. Bary, C.G. Cogger, A.L. Teel, and R.J. Watts. 2015. Antibiotic degradation during thermophilic composting. *Water Air Soil Pollut. (in Press)*
- Wayman, S. C. Cogger, C. Benedict, I. Burke, D. Collins, and A. Bary. 2014. The influence of cover crop variety, termination timing, and termination method on mulch, weed cover, and soil nitrate in reduce-tillage organic systems. *Renewable Agric Food Sys.* doi: [10.1017/S1742170514000246](https://doi.org/10.1017/S1742170514000246)
- Hummel, R.L., C. Cogger, A. Bary, and R. Riley. 2014. Marigold and pepper growth in container substrates made from biosolids composted with carbon-rich organic wastes. *Hort Tech* 24:325-333.
- Cogger, C.G., A.I. Bary, E.A. Myhre, and A. Fortuna. 2013. Long-term crop and soil response to biosolids applications in dryland wheat. *J. Environ. Qual.* 42:1872-1880. doi:10.2134/jeq2013.05.0109
- Cogger, C.G., A.I. Bary, A.C. Kennedy, and A. Fortuna. 2013. Biosolids applications to tall fescue have long-term influence on soil nitrogen, carbon, and phosphorus. *J. Environ. Qual.* 42:516-522. doi:10.2134/jeq2012.0269
- Saunders, O., A. Fortuna, J.H. Harrison, C. Cogger, E. Whitefield, and T. Green. 2012. Gaseous nitrogen and bacterial responses to raw and digested dairy manure applications in incubated soil. *Environ. Sci. Technol.* 46:11684–11692. dx.doi.org/10.1021/es301754s
- Saunders, O., A. Fortuna, J.H. Harrison, E. Whitefield, C. Cogger, A. Kennedy, and A.I. Bary. 2012. Comparison of raw dairy manure slurry and anaerobically digested slurry as N sources for grass forage production. *Internat. J. Agron.* doi:10.1155/2012/101074
- Lawson, A., A. Fortuna, C.G. Cogger, A.I. Bary, and T.L. Stubbs. 2012. Nitrogen contribution of rye-hairy vetch cover crop blends to organically grown sweet corn. *Renewable Agric Food Sys.* doi:10.1017/S1742170512000014
- Brown, S. K. Kurtz, A. Bary, and C. Cogger. 2011. Quantifying benefits associated with land application of residuals in Washington State. *Environ. Sci. Technol.* 45:7451–7458.
- Cogger, C.G., Bary, A.I., and Myhre, E.A. 2011. Estimating nitrogen availability of heat-dried biosolids. *Applied Environ. Soil Sci.* doi:10.1155/2011/190731
- Koenig, R.T., Cogger, C.G., and Bary, A.I. 2011. Dryland winter wheat yield, grain protein and soil nitrogen responses to fertilizer and biosolids applications. *Applied Environ. Soil Sci.* doi:10.1155/2011/925462
- Collins, D.P., C.G. Cogger, A.C. Kennedy, T. Forge, H.P. Collins, A.I. Bary, and R. Rossi. 2011. Farm-scale variation of soil quality indices and association with edaphic

- properties. *Soil Sci. Soc. Am. J.* 75:580-890.
- Pritchett, K., A.C. Kennedy, and C.G. Cogger. 2011. Management effects on soil quality in organic vegetable systems in western Washington. *Soil Sci. Soc. Am. J.* 75:605-615.
- Krucker, M., R.L. Hummel, and C. Cogger. 2010. Chrysanthemum production in composted and noncomposted organic waste substrates fertilized with nitrogen at two rates using surface and subirrigation. *HortScience.* 45:1695-1701.
- Sullivan, D., Bary, A., Cogger, C. and Shearin, T. 2009. Predicting biosolids application rates for dryland wheat across a range of Northwest climate zones. *Commun. Soil Sci. Plant Anal.* 40:1770-1789.
- Cogger, C., R. Hummel, J. Hart, and A. Bary. 2008. Soil and Redosier Dogwood Response to Incorporated and Surface-applied Compost. *Hortsci.* 43:2143–2150.
- Cogger, C.G., T.A. Forge, G.H. Neilsen. 2006. Biosolids recycling: Nitrogen management and soil ecology. *Can. J. Soil Sci.* 86:613-620.
- Gale, E.S., D.M. Sullivan, C.G. Cogger, A.I. Bary, D.D. Hemphill, and E.A. Myhre. 2006. Estimating plant available nitrogen release from manures, composts, and specialty products. *J. Environ. Qual.* 35:2321-2332.
- Cogger, C.G. 2005. Compost amendment of soils degraded by urban development: What are the benefits? *Compost Science and Utilization* 13:243-251.
- Bary, A.I., C.G. Cogger, D.M. Sullivan, and E.A. Myhre. 2005. Characterization of fresh yard trimmings for agricultural use. *Bioresource Technology* 96:1499-1504.
- Cogger, C.G., Bary, A.I., D.M. Sullivan, and E.A. Myhre. 2004. Biosolids processing effects on first and second year available N. *Soil Sci. Soc. Am. J.* 68:162-167.
- Bary, A.I., C.G. Cogger, and E.A. Myhre. 2004. Yard trimmings as a source of nitrogen for crop production. *Compost Science and Utilization* 12:11-17.
- Sullivan, D.M., T.J. Nartea, A.I. Bary, C.G. Cogger, and E.A. Myhre. 2004. Nitrogen availability and decomposition of urban yard trimmings in soil. *Soil Sci.* 169:697-707.
- Gilmour, J.T., C.G. Cogger, L.W. Jacobs, G.K. Evanylo, and D.M. Sullivan. 2003. Decomposition and plant available N in biosolids: Laboratory studies, field, studies, and computer simulation. *J. Environ. Qual.* 32:1498-1507.
- Miltner, E., A.I. Bary, and C.G. Cogger. 2003. Clopyralid and compost: Formulation and mowing effects on herbicide content of grass clippings. *Compost Sci. Util.* 11:289-299.

Extension Publications since 2012.

Sullivan, D., C. Cogger, and A. Bary. 2015. Fertilizing with biosolids. PNW 508e. Oregon State University Extension. (Revision of 2007 publication).

Painter, K., E. Myhre, A. Bary, C. Cogger, and W. Jemmett. 2015. Break-even analysis of small-scale production of pastured poultry. PNW 665. University of Idaho Extension.

Cogger, C. 2014. A home gardener's to soils and fertilizers. WSU Extension EM063E. (Revision and replacement of EB1971).

Cogger, C. 2014. Using biosolids in gardens and landscapes. WSU Extension. FS156E.

Cogger, C., C. Benedict, N. Andrews, and A. McGuire. 2014. Cover crops for home gardens west of the Cascades. WSU Extension. FS111E.

Cogger, C., C. Benedict, N. Andrews, S. Fransen, and A. McGuire. 2014. Cover crops for home gardens east of the Cascades. WSU Extension. FS117E.

Benedict, C., C. Cogger, and N. Andrews. 2014. Methods for successful cover crop management in your home garden. WSU Extension. FS119E.

Desta, K. and C. Cogger. 2014. Inorganic fertilizers for home garden vegetables and fruits in central Washington. WSU Extension. EM070E

Cogger, C. 2013. Growing food on parking strips and in front yard gardens. WSU Extension. FS 115E.

Cogger, C. and G. Stahnke. 2013 Organic soil amendments in yards and gardens: How much is enough? WSU Extension. FS123E

Collins, D. C. Miles, C. Cogger, and R. Koenig. 2013. Soil fertility in organic systems - A guide for gardeners and small acreage farmers. Pacific Northwest Extension Publication PNW 646.

Cogger, C.G. 2012. Raised beds: Deciding if they benefit your vegetable garden. WSU Extension Fact Sheet FS075E.