

Biographical Sketch

CRAIG G. COGGER

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EDUCATION:

<u>Degree</u>	<u>Institution</u>	<u>Year</u>	<u>Major</u>
Ph.D.	Cornell University	1979	Soil Science
MS	Cornell University	1975	Organic Chemistry
AB	Bowdoin College	1972	Chemistry

EXPERIENCE:

2000-present. Extension Soil Scientist and Soil Scientist; Washington State University, Puyallup. Research in organic farming systems focused on direct market vegetable production. Research in sustainable use of organic materials (biosolids, compost, yard debris, and animal manure) in agriculture and urban soils. Includes nutrient availability, agronomic application rates, cover crops, soil quality, water quality, pathogen fate, and greenhouse gas emissions. Extension programs in organic nutrient management, organic farming systems, septic systems, climate change, Master Gardeners, food safety, and ground water protection. Collaborate with farmers, researchers, agencies, industry, and community groups in identifying, developing, and delivering programs.

1990-2000. Extension Soil Scientist and Associate Soil Scientist; WSU, Puyallup.

1984-1990. Extension Soil Scientist and Assistant Soil Scientist; WSU, Puyallup.

1979-1984. Research Associate; Soil Science Dept., North Carolina State Univ., Raleigh. Conducted research on effects of conventional and alternative septic systems on ground water quality. Prepared Extension publications on septic system design and management.

PROFESSIONAL AFFILIATIONS:

American Society of Agronomy

Soil Science Society of America (Board of Directors 2004-2007)

Washington Society of Professional Soil Scientists

RECENT GRANTS FUNDED (Partial list):

Collins, D., C. Benedict, A. Corbin, , A. Bary, and C. Cogger. Increasing adoption of reduced tillage strategies on organic vegetable farms in the maritime Northwest. 2014-2018. Western Region SARE. \$249,919.

Flury, M., C. Miles, C. Benedict, C. Cogger, D. Inglis, J. Cowan, J. Goldberger, P. Tozer, S. Galinato, T. Marsh. 2014-2019 Performance and Adoptability of Biodegradable Plastic Mulch for Sustainable Specialty Crop Production. USDA SCRI. 1,016,508.

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Killinger, K., Bary, A. Cogger, C. Evaluation of irrigation water management systems for specialty crop risk reduction. 2012-2015. Washington State Specialty Crop Block Grant. \$247,000.

Fortuna, A., A. Bary, C. Cogger, D. Collins, A. Stone, and R. Turco. Greenhouse Gas Emissions and Soil Quality in Long-term Integrated and Transitional Reduced Tillage Organic Systems. 2012-2014. USDA NIFA. \$745,943.

Collins, D., A. Corbin, C. Cogger, C. Benedict, A. Bary. Selecting management practices and cover crops for reducing tillage, enhancing soil quality, and managing weeds in western Washington organic vegetable farms. 2011-2014. Western Region SARE. \$196,624.

Cogger, C., A. Bary, and R. Hummel. NBMA Research and Extension Contract. Northwest Biosolids Management Association. 20 annual grants totaling \$1,527,958. 1994-2015.

Cogger, C., S. Wayman, C. Benedict, A. Bary, and A. Corbin. Choosing and managing cover crops to improve weed management in reduced tillage organic vegetable production. 2012-2013. WSU BioAg. \$39,838.

Cogger, C.G., M. Ostrom, R. Alldredge, A. Fortuna, A. Kennedy, and K. Painter. Designing production strategies for stewardship and profits on fresh-market organic farms. USDA Integrated Organic Agriculture program. \$644,232. 2008-2013.

HONORS AND AWARDS:

King County WA Green Globe Award for biosolids research and education, 2013.

US Composting Council Rufus Chaney Research Award, 2012

WSU CAHNRS Faculty Excellence in Extension Award, 2011.

Northwest Biosolids Management Association Outstanding Leadership Award, 2007.

Kenneth J. Morrison Cooperative Extension Award in Crop and Soil Sciences, 2003.

American Society of Agronomy Educational Materials Awards, 1998 and 2000.

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CRAIG COGGER PUBLICATIONS

Refereed Journal. 2012-present

- 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)*
- 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. *HortTechnology. In press.*
- Wayman, S., C. Cogger, I. Burke, C. Benedict, 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 reduced-tillage organic systems. *Renewable Agric. Food Sys. Accepted.*
- 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
- Stahnke, G.K., E.D. Miltner, C.G. Cogger, R.A. Luchterhand, and R.E. Bembenek. 2013. Phosphorus availability in turfgrass root zones after applications of organic and synthetic nitrogen fertilizers. *Applied Turfgrass Sci.* doi:10.1094/ATS-2013-0325-01-RS.
- Hoashi-Erhardt, W.K., P.P. Moore, D.P. Collins, A.I. Bary, and C.G. Cogger. 2013. Evaluation of day-neutral cultivars for organic strawberry production in Washington. *Acta Horticulturae.* 1001, 167-174.
- McIvor, K, C. Cogger, and S. Brown. 2012. Effects of biosolids based soil products on soil physical and chemical properties in urban gardens. *Compost Sci. Util.* 20:199-206.
- 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