

Bibliography, OREI Awards (2008). Organic Extension and Research Initiative, award details and associated bibliographies, grant year 2008. Awards listed by ascending CRIS Accession Number; entries presented in chronological order. URLs last accessed 6-19 December 2017

CRIS accession number: 0213593

Grant number: 2008-51300-04307

Project number¹: WISW-2008-01278

Grant amount: \$434,925

Grant term: 2008-2012

Investigator(s)²: Jaworski, D. M.

Title: NWTC's organic agriculture program features an annual professional development training series and an organic farming certificate program

Publications reported & accessed: None

Publications reported & not accessed:

Miscellaneous

- *DACUM (Developing a Curriculum) results, Organic Practices Certificate brochure.* (2008, October)
- *Organic Agriculture Certificate flyer.* (2008)
- *Organic ag can help new farmers succeed, gives existing farmers a second chance.* (2011)
- *Hungry for change.* (2011)

Associated publications mentioned in narrative (absent from publication list): None

CRIS accession number: 0213611

Grant number: 2008-51300-04443

Project number¹: ORE00319

Grant amount: \$469,851

Grant term: 2008-2011

Investigator(s)²: Strik, B.

Title: Integrating weed management and fertility in organic highbush blueberry production systems to optimize plant growth, yield and grower return

Publications reported & accessed:

Appearing in peer-reviewed journals or series

- Strik, B. C., Buller, G., Larco, H., & Julian, J. (2009). The economics of establishing blueberries for organic production in Oregon: A comparison of weed management systems. *Acta Horticulturae* 810, 457-464
- Strik, B. C., Bryla, D., Larco, H., & Julian, J. (2012). Organic highbush blueberry production systems research - management of plant nutrition, irrigation requirements, weeds, and economic sustainability. *Acta Horticulturae* 933, 215-220
- Larco, H., Strik, B., Sullivan, D. M., & Bryla, D. (2014). Mulch effects on highbush blueberry under organic management. *Acta Horticulturae* 1018, 375-382

Abstracts/conference papers/presentations

- Larco, H., Strik, B., Bryla, D., & Sullivan, D. (2009). Establishing organic highbush blueberry production systems: the effect of raised beds, weed management, fertility, and cultivar. *HortScience* 44(4), 1120-21. Abstract retrieved from <http://hortsci.ashspublications.org/content/44/4/1083.full.pdf+html>
- Costello, R. & Sullivan, D. (2010). *Development of custom compost for highbush blueberry*. Poster presentation at the Soil Science Society of America Annual Meeting, Long Beach, CA. Abstract retrieved from <https://a-c-s.confex.com/crops/2010am/webprogram/Paper60079.html>
- Valenzuela-Estrada, L., Vargas, O. L., Bryla, D. R., Sullivan, D. & M., Strik, B. C. (2010). *Blueberry root dynamics and nutrient management under organic and conventional production*. Paper presented at the American Society for Horticultural Science Annual meeting, Palm Desert, CA. Abstract retrieved from <https://ashs.confex.com/ashs/2010/webprogram/Paper4493.html>
- Costello, R. C., Sullivan, D. M., Bryla, D. R., Strik, B. C., & Owen, J. (2011). Highbush blueberry response to compost and sulfur. In *Proceedings of the Western Nutrient Management Conference, Reno, NV* (pp. 67-72). Retrieved from <https://sites.google.com/site/westernregion103/committee-output/conference-proceedings-2011>

- Costello, R. C., Andrews, S. B., & Sullivan, D. M. (2011). *Laboratory titration to predict S required for compost acidification*. Poster presented at ASA-CSSA-SSSA International Annual Meetings, San Antonio, TX. Retrieved from <https://a-c-s.confex.com/crops/2011am/webprogram/Paper66759.html>
- Valenzuela-Estrada, L., Bryla, D. R., Sullivan, D. M., & Strik, B. C. (2011). *Influence of weed mat and surface sawdust mulch on soil nutrient availability and soil chemical properties under organic blueberry production*. Poster presented at the American Society for Horticultural Science Annual meeting, Waikoloa, HI. Retrieved from <https://ashs.confex.com/ashs/2011/webprogram/Paper7426.html>

Extension

- Costello, R. (2009, Fall). Composting and blueberry production. In *Small Farm News* (pp. 15-16). Retrieved from <http://smallfarms.oregonstate.edu/sfn/f09CompostingBlueberry>
- Strik, B., Bryla, D., & Larco, H. (2010). *Organic blueberry production webinar*. Presentation retrieved from <http://articles.extension.org/pages/26115/organic-blueberry-production-webinar>
- Sullivan, D., Valenzuela, L., & Costello, R. (2010). *Undercover nutrient investigation: The effects of mulch on nutrients for blueberry webinar*. Presentation retrieved from <http://articles.extension.org/pages/25232/undercover-nutrient-investigation:-the-effects-of-mulch-on-nutrients-for-blueberry-webinar>
- Valenzuela-Estrada, L., Bryla, D., Sullivan, D., & Strik, B. C. (2011). *Organic blueberry production research project: roots*. U.S. Cooperative Extension System: eXtension. Retrieved from <http://articles.extension.org/pages/32763/organic-blueberry-production-research-project:-roots>
- Strik, B. C., Bryla, D., & Sullivan, D. (2011). *Organic blueberry production research project*. U.S. Cooperative Extension System: eXtension. Retrieved from <http://articles.extension.org/pages/31680/organic-blueberry-production-research-project>
- Julian, J., Strik, B., Pond, E., & Yang, W. (2011). *Blueberry economics: The costs of establishing and producing organic blueberries in the Willamette Valley, Oregon* (Oregon State University Extension Service Bulletin AEB 0023). Retrieved from <http://arec.oregonstate.edu/oaeb/files/pdf/AEB0023.pdf>

Thesis

- Larco, H. O. (2010). *Effect of planting method, weed management, and fertilizer on plant growth and yield of newly established organic highbush blueberries* (Master's thesis). Corvallis: Oregon State University. Retrieved from http://ir.library.oregonstate.edu/concern/graduate_thesis_or_dissertations/rx913s52q

Miscellaneous

- Sullivan, D. M. & Costello, R. (2010). Breaking it down: growers can get the most value from their compost by having it analyzed first. *Digger (Oregon Association of Nurseries)* 54(10), 42-46. Retrieved from http://c.ymcdn.com/sites/www.oan.org/resource/resmgr/imported/digger/Digger_OCT_2010_P_41-46.pdf
- Strik, B., Vollmer, E., Buller, G., Bryla, D., & Sullivan, D. (2011, Spring). Organic blueberry production research project. *Oregon Blueberry Update*. Retrieved from <http://www.oregonblueberry.com/update/organic.html>

Publications reported & not accessed:

Abstracts/conference papers/presentations

- Strik, B. & Larco, H. (2008). Weed and fertility management of a newly established organic blueberry field. In *Proceedings of the Northwest Center for Small Fruits Research, Boise, ID 16*, 55-57.
- Strik, B. (2009). Organic blueberry production: is it viable in the Northwest? In *Proceedings of the Lower Mainland Horticultural Improvement Association, Abbotsford, BC* (pp. 135-136)
- Strik, B. (2009, May). Weed and fertility management of a newly established organic blueberry field. *eOrganic Updates*, 3
- Strik, B. (2009, May). Weed and fertility management of a newly established organic blueberry field. In *Proceedings of the Northwest Center for Small Fruits Research, Corvallis, OR 17*, 43-45.
- Strik, B. & Bryla, D. (2010). Weed, water, and nutrient management practices for organic blackberry production. In *Proceedings of the Northwest Center for Small Fruits Research, Boise, ID 19*, 92-93.

Associated publications mentioned in narrative (absent from publication list):

Thesis

- Costello, R. C. (2011). *Suitability of diverse composts as soil amendments for highbush blueberry (Vaccinium corymbosum L.)* (Master's thesis). Corvallis: Oregon State University. Retrieved from http://ir.library.oregonstate.edu/concern/graduate_thesis_or_dissertations/td96k549t

CRIS accession number: 0213651

Grant number: 2008-51300-04456

Project number¹: WNW-2008-01245

Grant amount: \$517,798

Grant term: 2008-2012

Investigator(s)²: Mazzola, M.

Title: Predictive management of soil microbial communities using defined amendments to enhance production in organic cropping systems

Publications reported & accessed:

Appearing in peer-reviewed journals or series

- Mazzola, M., Brown, J., Zhao, X., Izzo, A. D., & Fazio, G. (2009). Interaction of brassicaceous seed meal and apple rootstock on recovery of *Pythium* spp. and *Pratylenchus penetrans* from roots grown in replant soils. *Plant Disease* 93(1), 51-57.

Retrieved from <https://apsjournals.apsnet.org/doi/pdf/10.1094/PDIS-93-1-0051> and from <https://naldc.nal.usda.gov/naldc/download.xhtml?id=26834&content=PDF>

- Mazzola, M., de Bruijn, I., Cohen, M. F., & Raaijmakers, J. M. (2009). Protozoan-induced regulation of cycliclipopeptide biosynthesis is an effective predation defense mechanism for *Pseudomonas fluorescens*. *Applied and Environmental Microbiology* 75(21), 6804-6811. Retrieved from <http://aem.asm.org/content/75/21/6804.full.pdf+html> and from <https://naldc.nal.usda.gov/naldc/download.xhtml?id=36651&content=PDF>
- Pusey, P., Stockwell, V. O., & Mazzola, M. (2009). Epiphytic bacteria and yeasts on apple blossoms and their potential as antagonists of *Erwinia amylovora*. *Phytopathology* 99(5), 571-581. doi:10.1094/PHYTO-99-5-0571. Retrieved from <https://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO-99-5-0571> and <https://naldc.nal.usda.gov/naldc/download.xhtml?id=29188&content=PDF>
- Izzo, A. D. & Mazzola, M. (2009). Hybridization of an ITS-based macroarray with ITS community probes for characterization of complex communities of fungi and fungal-like protists. *Mycological Research* 113(6-7), 802-812. doi: 10.1016/j.mycres.2008.11.020. Retrieved from <https://naldc.nal.usda.gov/naldc/download.xhtml?id=29857&content=PDF>
- Wissuwa, M., Mazzola, M., & Picard, C. (2009). Novel approaches in plant breeding for rhizosphere-related traits. *Plant and Soil* 321, 409-430. doi:10.1007/s11104-008-9693-2
- Mazzola, M. & Zhao, X. (2010). *Brassica juncea* seed meal particle size influences chemistry but not soil biology-based suppression of individual agents inciting apple replant disease. *Plant and Soil* 337(1-2), 313-324. doi:10.1007/s11104-010-0529-5
- Mazzola, M. & Brown, J. (2010). Efficacy of brassicaceous seed meal formulations for the control of apple replant disease in organic and conventional production systems. *Plant Disease* 94(7), 835-842. doi:10.1094/PDIS-94-7-0835. Retrieved from <https://apsjournals.apsnet.org/doi/pdf/10.1094/PDIS-94-7-0835> and <https://naldc.nal.usda.gov/naldc/download.xhtml?id=43480&content=PDF>
- Tewoldemedhim, Y. T., Mazzola, M., Mostert, L., & McLeod, A. (2011). *Cylindrocarpon* species associated with apple tree roots in South Africa and their quantification using real-time PCR. *European Journal of Plant Pathology* 129(4), 637-651. doi:10.1007/s10658-010-9728-4
- Tewoldemedhim, Y. T., Mazzola, M., Botha, W. J., Spies, C. F., & McLeod, A. (2011). Characterization of fungi (*Fusarium* and *Rhizoctonia*) and oomycetes (*Phytophthora* and *Pythium*) associated with apple orchards in South Africa. *European Journal of Plant Pathology* 130(2), 215-229. doi:10.1007/s10658-011-9747-9
- Handiseni, M., Brown, J., Zemetra, R., & Mazzola, M. (2011). Herbicidal activity of Brassicaceae seed meal on wild oat (*Avena fatua*), Italian rye grass (*Lolium multiflorum*), redroot pigweed (*Amaranthus retroflex*) and prickly lettuce (*Lactuca serriola*). *Weed Technology* 25(1), 127-134. doi:10.1614/WT-D-10-00068.1

- Lamprecht, S. C., Tewoldemedhin, Y. T., Calitz, F. J., & Mazzola, M. (2011). Evaluation of strategies for the control of canola and lupin seedling diseases caused by *Rhizoctonia* anastomosis groups. *European Journal of Plant Pathology* 130(3), 427-439. doi: 10.1007/s10658-011-9764-8
- Spies, C. F. J., Mazzola, M., McLeod, A. (2011). Characterisation and detection of *Pythium* and *Phytophthora* species associated with grapevines in South Africa. *European Journal of Plant Pathology* 131, 103-119. doi:10.1007/s10658-011-9791-5. Retrieved from <https://naldc.nal.usda.gov/naldc/download.xhtml?id=50084&content=PDF>
- Lamprecht, S. C., Tewoldemedhin, Y. T., Hardy, M., Calitz, E. J., & Mazzola, M. (2011). Effect of cropping system on composition of *Rhizoctonia* populations recovered from canola and lupin in a winter rainfall region of South Africa. *European Journal of Plant Pathology* 131(2), 305-316. doi:10.1007/s10658-011-9809-z
- Spies, C. F., Mazzola, M., Botha, W. J., Van der Rijst, M., Mostert, L., & McLeod, A. (2011). Oogonial biometry and phylogenetic analyses of the *Pythium vexans* species group from woody agricultural hosts in South Africa reveal distinct groups within this taxon. *Fungal Biology* 115(2), 157-168. doi:10.1016/j.funbio.2010.11.005
- Spies, C. F. J., Mazzola, M., Botha, W. J., Langenhoven, S. D., Mostert, L., & McLeod, A. (2011). Molecular analyses of *Pythium irregulare* isolates from grapevines in South Africa suggest a single variable species. *Fungal Biology* 115(12), 1210-1224. doi:10.1016/j.funbio.2011.08.006
- Tewoldemedhin, Y. T., Mazzola, M., Labuschagne, I., & McLeod, A. (2011). A multi-phasic approach reveals that apple replant disease is caused by multiple biological agents, with some agents acting synergistically. *Soil Biology & Biochemistry* 43(9), 1917-1927. doi:10.1016/j.soilbio.2011.5.014. Retrieved from <https://naldc.nal.usda.gov/naldc/download.xhtml?id=50025&content=PDF>
- Raaijmakers, J. M., & Mazzola, M. (2012). Diversity and natural functions of antibiotics produced by beneficial and pathogenic soil bacteria. *Annual Review of Phytopathology* 50, 403-424. doi: 10.1146/annurev-phyto-081211-172908
- Mazzola, M., Reardon, C. L., & Brown, J. (2012). Initial *Pythium* species composition and Brassicaceae seed meal type influence extent of *Pythium*-induced plant growth suppression. *Soil Biology & Biochemistry* 48, 20-27. doi:10.1016/j.soilbio.2012.01.006
- Weerakoon, D. M. N., Reardon, C. L., Paulitz, T. C., Izzo, A. D., & Mazzola, M. (2012). Long-term suppression of *Pythium abappressorium* induced by *Brassica juncea* seed meal amendment is biologically mediated. *Soil Biology & Biochemistry* 51, 44-52. doi:10.1016/j.soilbio.2012.03.027
- Handiseni, M., Brown, J., Zemetra, R., & Mazzola, M. (2012). Use of Brassicaceous seed meals to improve seedling emergence of tomato and pepper in *Pythium ultimum* infested soils. *Archives of Phytopathology and Plant Protection* 45(10), 1204-1209. doi:10.1080/03235408.2012.660611

Abstracts/conference papers/presentations

- Mazzola, M., Brown, J., & Fazio, G. (2009). *Interaction of brassicaceous seed meal and rootstock on recovery of *Pratylenchus penetrans* from roots of apple grown in replant orchard soils*. Presentation at the Annual Meeting of the Society of Nematologists, Burlington, VT. Abstract retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3381459/>
- Zhao, X., Tewoldemedhin, Y., McLeod, A., & Mazzola, M. (2009). Multiple personalities of *Streptomyces* spp. from the rhizosphere of apple cultivated in brassica seed meal amended soils. *Phytopathology* 99(6s), S150. Abstract retrieved from <https://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO.2009.99.6.S1>
- Mazzola, M., Zhao, X. & Cohen, M. F. (2009). Resident biology restricts *Macrophomina phaseolina* in brassicaceous seed meal amended soil. In *Proceedings of the Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions, San Diego, CA* (pp. 100.1-100.3). Retrieved from <https://www.mbao.org/static/docs/confs/2009-sandiego/papers/100MazzolaMphaseolinaposter.pdf>
- Mazzola, M. (2009). Non-fumigant management of apple replant disease in organic and conventional systems. In *Proceedings of the Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions, San Diego, CA* (pp. 47.1-47.4). Retrieved from <https://www.mbao.org/static/docs/confs/2009-sandiego/papers/047MazzolaMMBAOsummary2009.pdf>
- Weerakoon, M., Izzo, A., & Mazzola, M. (2010). *Brassica juncea* seed meal amendment induces long-term suppressiveness to *Pythium abappressorium* under enclosed and open soil incubation conditions. *Phytopathology* 100(6s), S134. Abstract retrieved from <https://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO.2010.100.6.S1>
- Mazzola, M. (2011). Advances in Brassica seed meal formulation for apple replant disease control. In *Proceedings of the Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions, San Diego, CA* (pp. 6.1-6.4). Retrieved from <https://www.mbao.org/static/docs/confs/2011-sandiego/papers/06MazzolaMBAOapplereplant.pdf>
- Mazzola, M. (2011). Potential of biofumigation for soilborne pest control in strawberry. In *Proceedings of the Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions, San Diego, CA* (pp. 47.1-47.2). Retrieved from <https://www.mbao.org/static/docs/confs/2011-sandiego/papers/47MazzolaMBAOstrawberrysymposium.pdf>

Book chapter

- Mazzola, M. (2010). Management of resident soil microbial community structure and function to suppress soilborne disease development. In M. P. Reynolds (Ed.), *Climate Change & Crop Production* (pp. 200-218). Wallingford, UK: CABI. Chapter retrieved from <https://naldc.nal.usda.gov/naldc/download.xhtml?id=47398&content=PDF>

Publications reported & not accessed:

Abstracts/conference papers/presentations

- Mazzola, M. (2009). Active manipulation of native and microbial community structure and function to suppress soilborne diseases. In *Proceedings of the Annual Interdisciplinary Symposium on Soilborne Diseases, Stellenbosch, South Africa* (pp. 1-11)

Miscellaneous

- Mazzola, M. (2009). Active management of soil microbial communities to limit soilborne disease development in strawberry production systems. In *Annual Report to the California Strawberry Commission* (pp. 137-147)

Associated publications mentioned in narrative (absent from publication list):

Abstracts/conference papers/presentations

- Higgins, S., Carpenter-Boggs, L., Mazzola, M., Paulitz, T., Smith, J., & Crosby, C. (2008). *Brassica juncea seed meal as a fumigant in organic greenhouse production*. Poster presentation at Washington State University's BioAg Conference, Pullman, WA. Retrieved from <http://csanr.wsu.edu/pdfs/P1669.pdf>
- Mazzola, M. (2010). *Advances in Brassicaceae seed meal formulation and application protocol for control of apple replant disease*. Poster presentation at the Washington State Horticultural Association meeting. Retrieved from <http://www.tfrec.wsu.edu/pdfs/P1742.pdf>
- Mazzola, M. (2011). *Managing soil biology for multiple orchard benefits*. Presentation at the Washington State Horticultural Association meeting, Organic section. Retrieved from <http://www.tfrec.wsu.edu/pdfs/P2338.pdf>
- Mazzola, M. & Hoagland, L. A. (2012). Progress in Brassicaceae seed meal formulation and application for replant disease control in organic apple orchards. In *ISHS 2nd International Organic Fruit Research Symposium, Pullman, WA* (p. 10). Abstract retrieved from <http://www.tfrec.wsu.edu/pdfs/P2535.pdf>

Theses

- Handiseni, M. (2010). *Fungicidal and herbicidal properties of Brassica napus, Brassica juncea and Sinapis alba seed meal amended soils and phytotoxicity on tomato and pepper* (Master's thesis). Moscow: University of Idaho
- Weerakoon, D. M. N. (2011). *Utility of Brassica juncea seed meal soil amendment and Pseudomonas fluorescens SS101 for long-term suppression of apple root infection by Pythium spp.* (Master's thesis). Pullman: Washington State University. Retrieved from http://www.dissertations.wsu.edu/Thesis/spring2011/D_Weerakoon_1041811.pdf
- Agostini, A. (2011). *Effects of Brassicaceae seed meal incorporation on pre-plant weed emergence and strawberry productivity in Macrophomina phaseolina infested and non-infested soil* (Master's thesis). Rohnert Park, CA: Sonoma State University. Retrieved from <http://sonoma-dspace.calstate.edu/handle/10211.1/1462>
- Hewavitharana, S. S. (2013). *Carbon source dependent efficacy of anaerobic soil disinfestation in controlling apple replant disease* (Master's thesis). Pullman: Washington State University. Retrieved from http://www.dissertations.wsu.edu/Thesis/Summer2013/S_hewavitharana_071813.pdf

CRIS accession number: 0213730

Grant number: 2008-51300-04460

Project number¹: WNP07725

Grant amount: \$644,232

Grant term: 2008-2013

Investigator(s)²: Cogger, C. G.

Title: Designing production strategies for stewardship and profits on fresh market organic farms

Publications reported & accessed:

Appearing in peer-reviewed journals or series

- Collins, D. P., Cogger, C. G., Kennedy, A. C., Forge, T., Collins, H. P., Bary, A. I., & Rossi, R. (2011). Farm-scale variation of soil quality indices and association with edaphic properties. *Soil Science Society of America Journal* 75(2), 580-590. doi:10.2136/sssaj2010.0029
- Pritchett, K., Kennedy, A. C., & Cogger, C. G. (2011). Management effects on soil quality in organic vegetable systems in western Washington. *Soil Science Society of America Journal* 75(2), 605-615. doi:10.2136/sssaj2009.0294
- Lawson, A., Fortuna, A. M., Cogger, C., Bary, A., & Stubbs, T. (2013). Nitrogen contribution of rye-hairy vetch cover crop blends to organically grown sweet corn. *Renewable Agriculture and Food Systems* 28(1), 59-69. doi:10.1017/S1742170512000014

Abstracts/conference papers/presentations

- Lawson, A. J., Fortuna, A-M., Cogger, C., & Bary, A. (2010). *Cover crops to enhance nitrogen management in organic cropping systems*. Poster presented at the ASA, CSSA, and SSSA International Annual Meetings, Long Beach, CA. Abstract retrieved from <https://scisoc.confex.com/crops/2010am/webprogram/Paper60311.html>
- Fortuna, A-M. & Cogger, C. (2010). *The effect of organic cropping systems, fertility source and time of season on nitrification*. Presentation at the ASA, CSSA, and SSSA International Annual Meetings, Long Beach, CA. Abstract retrieved from <https://scisoc.confex.com/crops/2010am/webprogram/Paper61798.html>
- Fortuna, A. & Cogger, C. (2010). *The biogeochemical cycling of nitrogen in annual and perennial agroecosystems*. Poster presented at the AGU Fall Meeting, San Francisco, CA. Abstract retrieved from <http://abstractsearch.agu.org/meetings/2010/FM/B11D-0394.html>

Extension publications

- Collins, D. (2012). *Soil testing: A guide for farms with diverse vegetable crops* (Extension Bulletin EM050E). Pullman: Washington State University. Retrieved from <http://cru.cahe.wsu.edu/CEPublications/EM050E/EM050E.pdf>

- Collins, D., Miles, C., Cogger, C., & Koenig, R. (2013). *Soil fertility in organic systems: A guide for gardeners and small acreage farmers* (Pacific Northwest Extension Publication PNW646). Pullman: Washington State University. Retrieved from <http://cru.cahe.wsu.edu/CEPublications/PNW646/PNW646.pdf>

Publications reported & not accessed:

Abstract/conference paper/presentation

- Collins, D., Cogger, C., & Bary, A. (2013). *Soil sampling to direct farm management on diverse organic farms*. Presentation at the 6th National Small Farms Conference, Memphis, TN.

Associated publications mentioned in narrative (absent from publication list):

Thesis

- Lawson, A. J. (2010). *Cover crops to enhance soil productivity in organic vegetable cropping systems* (Master's thesis). Pullman: Washington State University. Retrieved from http://www.dissertations.wsu.edu/thesis/fall2010/a_lawson_112910.pdf

Miscellaneous

- Collins, D., Corbin, A., Benedict, C., Cogger, C. Bary, A., Burrows, C., & Mile, C. (2011, Spring). Reducing tillage with cover crops in western Washington organic vegetable production: Early research progress & future direction. *Tilth Producers Quarterly*, 15-19. Retrieved from http://tilthproducers.org/wp-content/themes/tilth/pdf/quarterly_journals/21_2Collins15.pdf

Websites

- Washington State University Small Farms Team (<http://smallfarms.wsu.edu/>). Available from January 1998 via the Internet Archive's WayBack Machine
- Organic Farming Systems and Nutrient Management (<https://puyallup.wsu.edu/soils/organicfarmveggies/>). Available from September 2015 via the Internet Archive's WayBack Machine

CRIS accession number: 0213893

Grant number: 2008-51300-04819

Project number¹: ARK02184

Grant amount: \$757,882

Grant term: 2008-2013

Investigator(s)²: Rom, C.

Title: Best management practices for organic orchard nutrition

Publications reported & accessed:

Appearing in peer-reviewed journals or series

- Johnson, D. T., Lewis, B., Rom, C. R., Friedrich, H., Bryant, R., & Pszczolkowski, M. (2010). Organic fruit production needs and pest management practices in the Southeastern United States. *Acta Horticulturae 873*, 37-44. doi:10.17660/ActaHortic.2010.873.2
- Rom, C. R., Garcia, M. E., Johnson, D. T., Popp, J., Savin, M., McAfee, J., & Friedrich, H. (2010). The effects of groundcover management and nutrient source during organic orchard establishment. *Acta Horticulturae 873*, 105-113. doi:10.17660/ActaHortic.2010.873.10
- Garcia, M. E., Moran, R., Berkett, L. P., Bradshaw, T., Kingsley-Richards, S., & Parsons, B. (2010). Using new alternatives to enhance adoption of organic apple production. *Acta Horticulturae 873*, 277-281. doi:10.17660/ActaHortic.2010.873.30
- Johnson, D. T., Rom, C. R., McAfee, J., McKern, J., Stafne, E. T., & Clark, J. R. (2010). Differences in defoliation of fruit genotypes by adult Japanese beetle feeding. *Journal of the American Pomological Society 64*(4), 184-197.
- Choi, H-S., Rom, C. R., & Gu, M. (2011). Plant performance and seasonal soil and foliar nutrient variations in an organic apple orchard under four ground cover management systems. *Journal of the American Pomological Society 65*(3), 130-146.
- Choi, H-S. & Rom, C. (2011). Effects of ground cover treatments on growth and photosynthesis in young 'Enterprise' apple trees. *Journal of the American Pomological Society 65*(3), 147-157.
- Choi, H-S. & Rom, C. R. (2011). Estimated nitrogen use efficiency, surplus, and partitioning in young apple trees grown in varied organic production systems. *Scientia Horticulturae 129*(4), 674-679. doi:10.1016/j.scienta.2010.11.019
- Johnson, D. T., Roubos, C. R., Nyoike, T. W., Stelinski, L. L., & Liburd, O. E. (2013). Lures, mating disruption and mass trapping of grape root borer. *Acta Horticulturae 1001*, 129-137. doi:10.17660/ActaHortic.2013.1001.13
- Bough, R. A. & Rom, C. R. (2013). Influence of organic groundcovers on mycorrhizal colonization and symbiosis of organically managed fruit crops. *Discovery, The Student Journal of the Dale Bumpers College of Agricultural, Food, and Life Sciences 14*, 3-11. Article retrieved from <https://discoverymag.uark.edu/wp-content/uploads/sites/177/2017/08/discovery2013.pdf>.

Abstracts/conference papers/presentations

- Rom, C. R., Friedrich, H., McAfee, J., Garcia, E., Johnson, D., Popp, J., & Savin, M. (2008). *Management practices for organic orchard ground cover and nutrition*. Poster presented at the SARE National Conference, Kansas City, MO. Retrieved from <http://www.sare.org/content/download/54137/717155/file/Rom.pdf?inlinedownload=1>
- Rom, C. R., McAfee, J., Friedrich, H., Choi, H., Garcia, M. E., Johnson, D., Popp, J., & Savin, M. (2008). Early performance during establishment of an organic apple orchard in the upper mid-South. *HortScience* 43(3), 609-610. Abstract retrieved from <http://hortsci.ashspublications.org/content/43/3/601.full.pdf+html>
- Johnson, D. T., Lewis, B., Rom, C., Friedrich, H., Bryant, R., & Pszczolkowski, M. A. (2008). *Organic fruit production needs in the southeastern United States and organic pest management practices tested in Arkansas*. Poster presented at the Annual Meeting of the Entomological Society of America, Reno, NV. Abstract retrieved from <https://esa.confex.com/esa/2008/webprogram/Paper38790.html>
- Rom, C. R. & Sambo, P. (2009). Understanding and assessing sustainability in horticulture; Use of life cycle analysis/assessment (LCA) to study and improve horticulture sustainability. *HortScience* 44(4), 970-971. Abstract retrieved from <http://hortsci.ashspublications.org/content/44/4/919.full.pdf+html>
- Rom, C. R., McAfee, J., Friedrich, H., Choi, H. S., Garcia, M. E., Johnson, D. T., Popp, J. S., & Savin, M. (2009). Early performance of an organic apple orchard as affected by ground cover management and nutrient sources. *HortScience* 44(4), 1081-1082. Abstract retrieved from <http://hortsci.ashspublications.org/content/44/4/1001.full.pdf+html>
- Choi, H. S. & Rom, C. R. (2009). Estimated nitrogen balance of young apple trees grown in response to various organic apple production systems. *HortScience* 44(4), 1113-1114. Abstract retrieved from <http://hortsci.ashspublications.org/content/44/4/1083.full.pdf+html>
- McAfee, J. D. & Rom, C. R. (2009). Ground cover management and nutrient source affect weed density, vole damage, and survival during establishment of an organic apple orchard. *HortScience* 44(4), 1114. Abstract retrieved from <http://hortsci.ashspublications.org/content/44/4/1083.full.pdf+html>
- Garcia, M. E., Friedrich, H., & Rom, C. R. (2009). Expanding sustainable and organic training opportunities in Arkansas. *HortScience* 44(4), 1152. Abstract retrieved from <http://hortsci.ashspublications.org/content/44/4/1083.full.pdf+html>
- Savin, M., Tomlinson, P., Rom, C., Friedrich, H., & Choi, H. (2009). *Differences in soil and tree responses to organic orchard fertilizer and ground cover management*. Paper presented at the ASA-CSSA-SSSA Annual International Meetings, Pittsburgh, PA. Abstract retrieved from <https://scisoc.confex.com/crops/2009am/webprogram/Paper53023.html>
- Rom, C. R., McAfee, J., Friedrich, H., Johnson, D., Garcia, E., Popp, J., & Savin, M. (2010). Early performance of an organic apple orchard as affected by nutrient source and ground cover management. In *Proceedings of the 29th Annual Horticulture Industries Show, Tulsa, OK* 29, 80-83. Retrieved from <http://www.hortla.okstate.edu/research-and-outreach/programs/HIS/pdfs/2010-HIS.pdf>

- Rom, C. R., McAfee, J. D., Friedrich, H., Garcia, M. E., Johnson, D., Popp, J., & Savin, M. (2011). Early performance during the establishment of an organic apple orchard with varied ground cover management treatments and nutrient sources. *HortScience* 46(9)(Supplement), S256-S257. Abstract retrieved from <http://hortsci.ashspublications.org/content/suppl/2011/10/31/46.9.DC2/2011HS-Abstract-Supplement.pdf>
- Bough, R. A., Rom, C. R., & McAfee, J. D. (2011). Influence of organic mulches on mycorrhizal colonization of apple trees in an organic orchard. *HortScience* 46(9)(Supplement), S257. Abstract retrieved from <http://hortsci.ashspublications.org/content/suppl/2011/10/31/46.9.DC2/2011HS-Abstract-Supplement.pdf>
- Rodriguez, H. (2011). Organic apple production using interactive budgets. In *Proceedings of the 30th Annual Horticulture Industries Show, Fort Smith, AR* (pp. 39-40). Retrieved from <http://www.hortla.okstate.edu/research-and-outreach/programs/HIS/pdfs/2011-HIS.pdf>
- Johnson, D. T., Kim, S-H. S., Petty, B., Rom, C., Steinkraus, D., Lewis, B., McAfee, J., & Friedrich, H. (2011). Lessons in organic fruit pest management. In *Proceedings of the 30th Annual Horticulture Industries Show, Fort Smith, AR* (pp. 41-44). Retrieved from <http://www.hortla.okstate.edu/research-and-outreach/programs/HIS/pdfs/2011-HIS.pdf>
- Rom, C. R., McAfee, J., Friedrich, H., Johnson, D., Savin, M., Popp, J., & Garcia, E. (2011). *The interaction of ground cover management system and nutritional sources on growth and development of an organic apple orchard in the south*. Poster presented at the Annual Conference of the Southern Sustainable Agriculture Working Group, Chattanooga, TN. Abstract retrieved from <https://static.squarespace.com/static/51d210d2e4b08819bd81725b/51d5864ce4b0a8bc2ad8f57c/51d5864de4b0a8bc2ad8f57f/1312476537687/GroundCoverMgmtSystem-Rom-UARK.pdf>.
- Mays, N., Rom, C. R., Savin, M., Brye, K., & McAfee, J. (2012). Ground cover management and nutrient source increase soil carbon sequestration in an organically managed orchard. *HortScience* 47(9), S161. Abstract retrieved from http://hortsci.ashspublications.org/content/suppl/2012/10/22/47.9.DC1/HS-Sept_2012-Conference_Supplement.pdf
- Rom, C. R., Garcia, M. E., Johnson, D. T., Savin, M., Popp, J. H., McAfee, J., & Friedrich, H. (2012). Ground cover management and nutrient source affect soil and foliar nutrient contents in an organically managed apple orchard in the southern U.S. *HortScience* 47(9), S163. Abstract retrieved from http://hortsci.ashspublications.org/content/suppl/2012/10/22/47.9.DC1/HS-Sept_2012-Conference_Supplement.pdf
- Rom, C. (2012). Fruit orchard management. In *Proceedings of the 31st Annual Horticulture Industries Show, Tulsa, OK* (pp. 86-88). Retrieved from <http://www.hortla.okstate.edu/research-and-outreach/programs/HIS/pdfs/2012-HIS.pdf>
- Rom, C. (2012). *The effects of four ground cover management systems and three nutrient sources on the development and performance of an organic orchard in the southern United States*. Presentation at the Second International Organic Fruit Research Symposium, Leavenworth, WA. Recorded presentation retrieved from <https://www.youtube.com/watch?v=Qc09YmGxh1U>

- Johnson, C., Smith, B., & Savin, M. (2012). *Invertebrate abundance and diversity in surface litters of a six year old organic apple orchard in northwest Arkansas*. Presentation at the ASA, CSSA, SSSA International Annual Meetings, Cincinnati, OH. Abstract retrieved from <https://scisoc.confex.com/crops/2012am/webprogram/Paper73599.html>
- Bough, R. & Rom, C. R. (2013). Influence of organic groundcovers on mycorrhizal colonization and symbiosis of organically managed fruit crops. *HortScience* 48(9), S16. Abstract retrieved from http://hortsci.ashspublications.org/content/suppl/2013/10/17/48.9.DC1/HS-Sept_2013-Conference_Supplement.pdf
- Rodriguez, G., Popp, J. H., Rom, C. R., Friedrich, H., McAfee, J., & Myrteza, H. (2013). A new economic assessment tool for organic apple producers. *HortScience* 48(9), S357. Abstract retrieved from http://hortsci.ashspublications.org/content/suppl/2013/10/17/48.9.DC1/HS-Sept_2013-Conference_Supplement.pdf
- Ford, J., Savin, M. C., Rom, C., & McAfee, J. (2013). *Mineralization and nitrification in soil altered by ground cover and nutrient source in an organic apple orchard*. Poster presentation at the ASA, CSSA, SSSA International Annual Meetings, Tampa, FL. Abstract retrieved from <https://scisoc.confex.com/crops/2013am/webprogram/Paper79973.html>
- Rom, C. R. (2013). Organic apple production. In *Proceedings of the 32nd Annual Horticulture Industries Show, Fort Smith, AR* (pp. 90-94). Retrieved from <http://www.hortla.okstate.edu/research-and-outreach/programs/HIS/pdfs/2013-HIS.pdf>
- Johnson, D. & Kim, S-H. S. (2013). IPM considerations for organic fruit production: Managing insect pests. In *Proceedings of the 32nd Annual Horticulture Industries Show, Fort Smith, AR* (pp. 95-97). Retrieved from <http://www.hortla.okstate.edu/research-and-outreach/programs/HIS/pdfs/2013-HIS.pdf>
- Rodriguez, H. G., Popp, J., Rom, C., Friedrich, H., & McAfee, J. (2013). *Development of an economic assessment tool for southern organic apple production*. Poster presented at the Southern Sustainable Agriculture Working Group Annual Conference, Little Rock, AR. Abstract retrieved from <https://static.squarespace.com/static/51d210d2e4b08819bd81725b/51d5864de4b0a8bc2ad8f5a6/51d5864de4b0a8bc2ad8f5a9/1365539738067/Popp-economic-assessment.pdf>

Dissertation and theses

- Choi, H. S. (2009). *Effects of different organic apple production systems on seasonal variation of soil and foliar nutrient concentration* (Doctoral dissertation). Fayetteville: University of Arkansas.
- Mays, N. (2013). *Groundcover management system and nutrient source impact physical soil quality indicators in an organically managed apple orchard* (Master's thesis). Fayetteville: University of Arkansas Theses and Dissertations 768. Thesis retrieved from <http://scholarworks.uark.edu/etd/768/>
- Ford, J. N. (2015). *Available nitrogen and denitrification in soil altered by ground cover and nutrient source in an organic apple orchard* (Master's thesis). Fayetteville: University of Arkansas Theses and Dissertations 1419. Thesis retrieved from <http://scholarworks.uark.edu/etd/1419/>

Miscellaneous

- Breaking new ground for organic orchards (2008, Autumn). *Common Ground*, 5,8. Retrieved from <http://www.southernsare.org/content/download/654/5664/file/08autumn.pdf?inlinedownload=1>
- Blouin, M. L. (2009, 15 October). Organic fruit production. *Research Frontiers* (online). Retrieved from <https://researchfrontiers.uark.edu/organic-fruit-production/>

Publications reported & not accessed:

Appearing in peer-reviewed journals or series

- Johnson, C., Smith, B., & Savin, M. C. (2012). Invertebrate abundance and diversity in surface litters of a six year old organic apple orchard in northwest Arkansas. *Discovery, The Student Journal of the Dale Bumpers College of Agricultural, Food, and Life Sciences* 13, 38-45.

Abstracts/conference papers/presentations

- Choi, H-S. & Rom, C. R. (2011). Effects of organic apple production systems on foliar macronutrient concentrations. In *Proceedings of the IFOAM/ISOFAR Organic Congresses, Seoul, South Korea*
- Johnson, D. T. (2011). *Using biological control and other organic pest management tactics*. MS Fruit & Vegetable Growers Conference, Vicksburg
- Johnson, D., Kim, S., Vincent, C., Lewis, B., Rom, C., & Garcia, E. (2011). *Improving pest management for fruits in the Ozark mountain region*. Entomological Society of America-Southeastern Branch meeting, Puerto Rico
- Rom, C. R., McAfee, J. Garcia, M. E., Johnson, D. T., & Lewis, B. (2011). *Progress and challenges for organic fruit production in Arkansas and Oklahoma*. Invited presentation, Arkansas-Oklahoma Horticulture Industries Show.
- Rom, C. R. (2011). *Sustainable and organic fruit production in the southern region*. Presentation at the Annual Conference of the Southern Sustainable Agriculture Working Group, Chattanooga, TN.
- Rom, C. R., Garcia, M. E., Johnson, D. T., Popp, J. & Savin, M. (2011). *Developing organic production systems for Arkansas and the upper mid-South*. Presentation at the USDA-NIFA OREI Project Leaders Conference, Washington, DC.
- Rom, C. R. (2011). *Tree fruit propagation: Rules and techniques*. Presentation at the Missouri Organic Growers Association, Springfield, MO.
- Rom, C. R. (2011). *Primer on sustainable and organic fruit production: You are the experts*. Presentation at the NCCC212 Annual Conference, Fayetteville, AR.
- Rom, C. R. (2011). *The organic system*. Presentation at the UA-CES SARE In-service Training Workshop on Organic Production.
- Rom, C., Garcia, E., Johnson, D., Popp, J., & Savin, M. (2011). *Best management practices for organic apple production*. Poster presentation at the USDA Organic Farming Systems Research Conference, Washington, DC.

- Rom, C. R., McAfee, J., Friedrich, H., Johnson, D., Garcia, E., Popp, J., & Savin, M. (2011). Early performance of an organic apple orchard as affected by nutrient source and ground cover management. In *Proceedings of the 30th Annual Horticulture Industries Show, Fort Smith, AR*.
- Savin, M. (2011). Soil management in perennial systems. In *Proceedings of the 30th Annual Horticulture Industries Show, Fort Smith, AR*.
- Johnson, D. (2013). *Recent efforts in small farm IPM in Arkansas*. Poster presentation at the Small Farms Working Groups IPM meeting, Kissimmee, FL.
- Savin, M. C. (2013). The impacts of organic apple production practices on soil. In *Proceedings of the 32nd Annual Horticulture Industries Show, Fort Smith, AR*.

Miscellaneous

- Scientists develop holistic approach for organic production. (2008, May). *Arkansas Ag News* (online).

Associated publications mentioned in narrative (absent from publication list):

Website

- UA Ecological Agriculture (www.uark.edu/ua/uaecoag/). Available from May 2010 via the Internet Archive's WayBack Machine

¹Project ID field in the CRIS Assisted Search form.

²Investigator field in the REEIS report form.