

# Curriculum Vitæ

## Jennifer Reeve

### Department of Plants Soils and Climate

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### EDUCATION

Ph.D., Soil Science, Washington State University, 2007.

Dissertation: Soil Quality and Microbial Functional Diversity on Organic and Conventional Strawberry Farms.

Advisors: John P. Reganold and Lynne Carpenter-Boggs

M.S., Soil Science, Washington State University, 2003.

B.S., Hons. Ecology, University of Sheffield, 1995.

### PROFESSIONAL EXPERIENCE

07/2013 – present	Associate Professor in Organic and Sustainable Agriculture, Department of Plants, Soils, and Climate, Utah State University.
08/2007 – 06/2013	Assistant Professor in Organic and Sustainable Agriculture, Department of Plants, Soils, and Climate, Utah State University.
08/2001 – 07/2007	Graduate Research Assistant, Department of Crop and Soil Sciences, Washington, State University.
11/2005 – 06/2006	Visiting Scientist, Environmental Sciences Division, Oak Ridge National Lab, Oak Ridge, Tennessee.
06/2002 – 06/2004	Land Institute Fellow, Department of Crop and Soil Sciences, Washington State University.
01/2001 – 07/2001	Research Assistant, Department of Biological Sciences, Radford University, Radford, Virginia.
03/1999 – 07/2001	Laboratory technician, Josephine Porter Institute for Applied Biodynamics, Woolwine, Virginia.
04/1996 – 02/1999	Assistant children's environmental activities educator at Mannington Hall, the Norfolk Wildlife Trust, and BUNAC (British Universities North America Club).

### TEACHING

01/2017 - present	PSC 4070/6070 Advanced Agroecology, 3 credits, taught alternating spring semesters.
08/2007 - present	PSC 2800/6900 Fundamentals of Organic Agriculture, 3 credits taught alternating spring semesters.
08/2008 – present	PSC 4900 Organic Farm Practicum, 1 credit taught in the spring and fall semesters.
01/2006 - 05/2006	Developed distance learning components for Soils 101 Organic Farming and Gardening, Washington State University.

## **AWARDS (\*graduate student award recipients)**

- Utah State University Graduate Enhancement Award 2019. \*Anthony Whaley.
- Nelson Yield Limiting Scholarship 2019. American Society of Agronomy. \*Idowu Atoloye.
- College of Agriculture and Applied Sciences PhD Student of the Year 2019. \*Idowu Atoloye.
- Plant Soils and Climate Department PhD Student of the Year 2019. \*Idowu Atoloye.
- Finalist, MS Student of the Year 2019. Utah State University Robins Award. \*Katheryn Slebodnik.
- eOrganic and American Society for Horticultural Sciences Organic Horticulture Interest Group Student Paper Competition Winner 2019. Orchard floor management practices for establishing organic peaches in the Intermountain West. \*Anthony Whaley.
- Western Nutrient Management Conference 2019. Second place student poster competition: “Aggregate size, C, N and P Dynamics in different organic wheat soils.” \*Idowu Atoloye.
- College of Agriculture and Applied Sciences MS Student of the Year Award. 2018. \*Katheryn Slebodnik.
- Plant Soils and Climate Department MS Student of the Year 2018. \*Katheryn Slebodnik.
- Western Nutrient Management Conference 2017. First place student poster competition: “Effects of a one-time compost addition on soil health in a rain fed dryland organic wheat system.” \*Idowu Atoloye.
- Western Nutrient Management Conference 2017. Runner up in student poster competition: “Effects of cover crops and compost on soil water availability in organic dryland wheat.” \*Kareem Adeleke.
- Civically Engaged Scholar for Utah State University 2012. Utah Campus Compact.
- Finalist, Best Student Organization 2012. Utah State University Robins Award.
- The Ulysses P. Hedrick Award 2011. First place for student paper “Alternative Alleyways for Tart Cherry Orchards.” The American Pomological Society. \*Mark Rowley.
- Shepard Award 2010. For the paper entitled “A Comparison of Root Distribution Patterns among *Prunus* Rootstocks.” The American Pomological Society.

## **CERTIFICATIONS**

08/2008. Radiation Safety Training. Awarded by Utah State University, Logan, UT.  
04/2004. Certificate of Radiation Safety Training. Awarded by Washington State University, Pullman, WA.  
08/2004. Certificate of Spacial Dynamics Training. Awarded by Spacial Dynamics Institute, Mechanicville, NY.

12/1998. The Art and Craft of the Storyteller. Awarded by Emerson College, England.

## PROFESSIONAL MEMBERSHIP

American Society of Agronomy	active since 2005
Soil Science Society of America	active since 2005
American Society of Horticultural Sciences	active since 2011

## JOURNAL ARTICLES (peer reviewed)

### Published since gaining tenure at Utah State University

#### \*Graduate student author, \*\*Undergraduate student author

\*Buckland, K.R., J.E. Creech, G.E. Cardon, T.A. Monaco, and **J.R. Reeve**. 2019. Quinoa response to line-source sprinkler irrigation. *Journal of Crop Improvement*. Published online.

Carr, P.M., M.A. Cavigelli, H. Darby, K. Delate, J.O. Eberly, G.G. Gramig, J.R. Heckman, E.B. Mallory, **J.R. Reeve**, E.M. Silva, D.H. Suchoff and A.L. Woodley. 2019. Nutrient Cycling in Organic Field Crops in Canada and the United States. *Agronomy Journal* published online.

\*Culumber, C.M., **J.R. Reeve**, B.L. Black, C.V. Ransom, and D.G. Alston. 2019. Organic orchard floor management impact on soil quality indicators: nutrient fluxes, microbial biomass indicators and activity. *Nutrient Cycling in Agroecosystems*. 115:101-115.

\*Buckland, K.R., **J.R. Reeve**, J.E. Creech and S. Durham. 2018. Managing soil fertility and health for quinoa production and weed control in organic systems. *Soil and Tillage Research*. 184:52-61.

\*Ouyang, Y., **Reeve, J.R.**, Norton, J.M. 2018. Soil enzyme activities and abundance of microbial functional genes involved in nitrogen transformations in an organic farming system. *Biology and Fertility of Soils*. 54:437-450.

**Reeve, J.R.**, \*C.M. Culumber, B.L. Black, \*A.S. Tebeau, C.V. Ransom, \*M.A. Rowley, D.G. Alston and T. Lindstrom. 2017. Establishing peach trees for organic production in Utah and the Intermountain West. *Scientia Horticulturae*. 214:242-251.

\*Buckland, K.R., D.G. Alston, **J.R. Reeve**, C. Nischwitz, D.T. Drost. 2017. Trap crops in onion to reduce onion thrips and Iris Yellow Spot virus. *Southwest Entomologist*. 42:73-90.

\*Tebeau, A.S., D.G. Alston, C.V. Ransom, B.L. Black, **J.R. Reeve** and \*C.M. Culumber. 2017. Effects of floor vegetation and fertility management on weed biomass and diversity in organic peach orchards. *Weed Technology*. **31**:404-415.

**Reeve, J.R.**, L.A. Hoagland, J.J. Villalba, P.M. Carr, A. Atucha, C. Cambardella, D.R. Davis and K. Delate. 2016. Organic farming, soil health and food quality: considering possible links. *Advances in Agronomy*. 137:319-368.

\*Ouyang, Y., J.M. Norton, J.M. Stark, **J.R. Reeve** and M.Y. Habteselassie. 2016. Ammonia-oxidizing bacteria are more responsive than archaea to nitrogen sources in an agricultural soil. *Soil Biology and Biochemistry*. **96**:4-15.

\*Olsen, D.J.R., \*J.B. Endelman, A. Jacobson and **J.R. Reeve**. 2015. Compost carryover: nitrogen, phosphorus and FT-IR analysis of soil organic matter. *Nutrient Cycling in Agroecosystems*. **101**:317-331.

\*Hunt, S.R., J.W. Macadam, and **J.R. Reeve**. 2015. Establishment of birdsfoot trefoil (*Lotus corniculatus*) pastures on organic dairy farms in the Mountain West USA. *Organic Agriculture*. **5**:63-77.

**Reeve, J.R.**, K. Hall and \*\*C. Kalkman. 2014. Student outcomes from experiential learning at a student-run certified organic farm. *Natural Sciences Education*. **43**:16-24.

\*Buckland, K.R., **J.R. Reeve**, D. Alston, C. Nischwitz and D. Drost. 2013. Effects of nitrogen fertility and crop rotation on onion growth and yield, thrips densities, Iris yellow spot virus and soil properties. *Agriculture, Ecosystems and Environment*. **177**: 63-74.

#### **Published prior to gaining tenure at Utah State University**

**Reeve, J.R.**, \*J.B. Endelman, B.E. Miller and D.J. Hole. 2012. Residual effects of compost detectable sixteen years after application in dryland wheat. *Soil Science Society of America Journal* **76**:278-285.

**Reeve J.R.**, and D.T. Drost 2012. Yields and soil quality in transitional organic high tunnel tomatoes. *HortScience*. **47**:38-44.

**Reeve, J.R.**, L. Carpenter-Boggs, and H. Sehmsdorf. 2011. Sustainable Agriculture: A case study of a small Lopez Island Farm. *Agricultural Systems* **104**:572-579.

\*Rowley, M.A., B.L. Black, C.V. Ransom, **J.R. Reeve**, and J.E. Creech. 2011. Alternative alleyways for tart cherry orchards. *Journal of the American Pomological Society* **65**:208-217.

\*Rowley, M.A., C.V. Ransom, **J.R. Reeve**, and B.L. Black. 2011. Mulch and organic herbicide combinations for in-row orchard weed suppression. *International Journal of Fruit Science*. **11**:316-331.

**Reeve, J.R.**, C.W. Schadt, L. Carpenter-Boggs, J.P. Reganold, and Z. Zhou. 2010. Microbial functional diversity and enzyme activities in response to soil fumigation and organic management. *The International Society of Microbial Ecology Journal* **4**:1099-1107.

**Reeve, J.R.**, L. Carpenter-Boggs, J.P. Reganold, and W.F. Brinton. 2010. Influence of biodynamic preparations on compost development and resultant compost extracts on wheat seedling growth. *Bioresource Technology* **101**:5658-5666.

Reganold, J.P., P.K. Andrews, **J.R. Reeve**, L. Carpenter-Boggs, C.W. Schadt, R. Alldredge, C.F. Ross, N.M. Davies, and J. Zhou. 2010. Enhanced fruit quality and soil functional gene abundance and diversity on organic strawberry farms. *Plos One* **5**:e12346. Doi10.1371/journal.pone.0012346.

\*Endelman, J.B., **J.R. Reeve**, D.J. Hole. 2010. Economically optimal compost rates for organic crop production. *Agronomy Journal* **102**:1283-1289.

\*Endelman, J.B., **J.R. Reeve**, D.T. Drost 2010. A new decay series for organic crop production. *Agronomy Journal* **102**:457-463.

Black, B.L., D.T. Drost, T. Lindstrom, **J.R. Reeve**, and G.L. Reighard. 2010. A comparison of root distribution patterns among Prunus rootstocks. *Journal of the American Pomological Society* **64**:52-60.

**Reeve, J.R.**, J.L. Smith, L. Carpenter-Boggs, J.P. Reganold. 2009. Glycine N, nitrate and ammonium uptake by classic and modern wheat varieties in a short-term microcosm study. *Biology and Fertility of Soils*. **45**:723-732.

Evans, C.K., S. Bag, E. Frank, **J.R. Reeve**, C. Ransom, H. Pappu. 2009. Natural infection of iris yellow spot virus in twoscale saltbush (*Atriplex micrantha*) growing in Utah. *Plant Disease* **93**:430.

Evans, C.K., S. Bag, E. Frank, **J.R. Reeve**, C. Ransom, H. Pappu. 2009. Green foxtail (*Setaria viridis*), a naturally infected grass host of iris yellow spot virus in Utah. *Plant Disease* **93**:670.

**Reeve, J.R.**, 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 and Biochemistry*. **40**:2547-2552.

**Reeve, J.R.**, L. Carpenter-Boggs, J.P. Reganold, A.L. York, G. McGourty, and L. McCloskey. 2005. Soil and winegrape quality in biodynamic and organically managed vineyards. *American Journal of Enology and Viticulture*. **56**:367-376.

## **BOOK CHAPTERS (peer reviewed)**

### **Published since gaining tenure at Utah State University**

#### **\*Graduate student author**

\*Brym, Z. and **J.R. Reeve**. 2016. Agroecological principles from a bibliographic analysis of the term agroecology. *Sustainable Agriculture Reviews*. 19:203-232.

Reganold, J.P., P.K. Andrews, **J.R. Reeve**, L. Carpenter-Boggs, C.W. Schadt, R. Alldredge, C.F. Ross, N.M. Davies, and J. Zhou. 2013. Organic versus Conventional Strawberry Agroecosystems. In D. Rooney (ed) *Sustainable Soil Management*. CRC Press, Boca Raton, Florida, p.p. 185-215.

## **PROCEEDINGS (peer reviewed)**

### **Published since gaining tenure at Utah State University**

#### **\*Graduate student author**

**Reeve, J.R.**, B.L. Black, C.V. Ransom, T. Lindstrom, D.G. Alston, \*C.M. Culumber, \*A.S. Tebeau. 2013. Developing organic stone-fruit production options for Utah and the Intermountain West United States. In *Proceedings of the Second International Organic Fruit Symposium, Leavenworth, Washington, USA, June 18-21, 2012*. Edited by D.

Granatstein, P.K. Andrews, S.D. Bishop and W. Janisiewics. Acta Horticulturae, Proceedings Number 1001. pp. 65-72. International Society of Horticultural Science, Leuven, Belgium.

### **Published prior to gaining tenure at Utah State University**

Carpenter-Boggs, L., J.P. Reganold, **J.R. Reeve**, and P.K. Andrews. 2011. Organic management improves soil health and strawberry nutritive value. In *Proceedings of the Western Nutrient Management Conference. Reno, ND. March 3-4<sup>th</sup> 2011.*

**Reeve, J.R.**, J.L. Smith, L. Carpenter-Boggs, J.P. Reganold. 2005. “Plant uptake of organic molecules as N source.” In *Researching Sustainable Systems, Proceedings of the First Scientific Conference of the International Society of Organic Agriculture Research (ISO FAR), Institute of Organic Agriculture. Adelaide, Australia, September 20-27<sup>th</sup> 2005.* Edited by U. Köpke, U. Niggli, D. Nuehoff, P. Cornish, W. Lockeretz, and H. Willer, 44-47. (Bonn, Germany, 2005).

**Reeve, J.R.**, L. Carpenter-Boggs, J.P. Reganold, A.L. York and G. McGourty. 2005. “Soil and winegrape quality in a biodynamically and organically managed vineyard.” In *Researching Sustainable Systems, Proceedings of the 8<sup>th</sup> International Conference of Organic Viticulture, Institute of Organic Agriculture, Adelaide, Australia, September 20 - 27<sup>th</sup> 2005.* Edited by U. Köpke, U. Niggli, D. Nuehoff, P. Cornish, W. Lockeretz, and H. Willer, 16. (Bonn, Germany 2005).

Carpenter-Boggs, L., **J.R. Reeve**, and J.P. Reganold. 2002. “Biodynamic preparations speed composting and increase nitrogen.” In *Cultivating Biological Connections: Proceedings of the Northwest Symposium on Organic and Biologically Intensive Farming: Advances in Research and Education, November 8<sup>th</sup> 2002, Yakima WA.* Edited by C. Miles, D. Granatstein and A. Stone, 2.

### **FACT SHEETS (peer reviewed)**

#### **Published since gaining tenure at Utah State University**

##### **\*Graduate student author**

\*Whaley, A., **J.R. Reeve**, B.L. Black, C.V. Ransom, D.G. Alston, C.M. Culumber, L. Koyle. 2019. Orchard floor management practices for establishing organic peaches in the Intermountain West. eOrganic and American Society for Horticultural Sciences Organic Horticulture Interest Group Student Paper Competition Winner.

Yost, M., G. Cardon, B. Crookston, **J.R. Reeve**, J.E. Creech. 2019. Measuring and building soil health. Extension, Utah State University. AG/Soils/2019-01pr.

\*Buckland, K. R., J.E. Creech, **J.R. Reeve**, G. Cardon, M. Yost, D. Despain. 2018. Cover crops for Utah. Extension, Utah State University. AG/Crops/2018-02pr.

\*Thomsen, E.O., \*C.M Culumber, **J.R. Reeve**, G. Cardon, D. Alston, B.L. Black and C.V. Ransom. 2018. Strategies for managing soil fertility and health in organic orchards – A fact sheet. Extension, Utah State University. Horticulture/Orchards/2018-01pr.

\*Thomsen, E., **J.R. Reeve**, D. Alston, G. Cardon, R. Newhall. 2017. Simple tests for soil health evaluation in orchards. Extension, Utah State University. Horticulture/Soils/2017-02pr.

\*Buckland, K. R., J.E. Creech, **J.R. Reeve**, G. Cardon, M. Pace. 2017. Quinoa for Utah. Extension, Utah State University. AG/Crops/2017-02pr.

\*Thomsen, E., D. Alston, **J.R. Reeve**, G. Cardon and B. Black. 2016. Improving organic peach orchard fertility with nitrogen-fixing ground covers in Capitol Reef National Park: A case study. Extension, Utah State University. Horticulture/Fruit/2016-04pr.

\*Knudsen, T. K. Curtis, **J.R. Reeve** and B. Black. 2016. Northern Utah Organic Peach Orchard Costs and Returns, 20 Acres, 2015. Applied Economics/2016-01pr.

\*Knudsen, T. K. Curtis, **J.R. Reeve** and B. Black. 2016. Northern Utah Conventional Peach Orchard Costs and Returns, 20 Acres, 2015. Applied Economics/2016-02pr.

## **PRESENTATIONS and POSTERS**

### **Presented since gaining tenure at Utah State University**

#### **\*Graduate student author, \*\*Undergraduate student author**

\*Whaley, A., **J.R. Reeve**, B.L. Black, C.V. Ransom, D.G. Alston, C.M. Culumber, L. Koyle. 2019. Establishing organic peaches in the Intermountain West. American Society of Horticultural Sciences. July 22-25<sup>th</sup>, Las Vegas, NV.

\*Whaley, A., **J.R. Reeve**, B. Chamberlain. 2019. Quantifying and visualizing orchards and vegetable crops rate of change along the Wasatch Front, Utah. American Society of Horticultural Sciences. July 22-25<sup>th</sup>, Las Vegas, NV.

\*Whaley, A., **J.R. Reeve**, B. Chamberlain. 2019. Quantifying and visualizing agricultural land use rate of change. Future Memory: Mapping the Anthropocene Conference. April 20<sup>th</sup>, Logan, UT.

\*Whaley, A., **J.R. Reeve**, B. Chamberlain. 2019. Quantifying and visualizing agricultural land use rate of change along the Wasatch Front, Utah. Intermountain West Sustainability Summit, March 21<sup>st</sup>, Ogden, UT.

\*Atoloye, I., **J.R. Reeve**, A. Jacobson and J.E. Creech. 2019. Aggregate size, C, N and P Dynamics in different organic wheat soils. Western Nutrient Management Conference. March 6-8<sup>th</sup>, Reno NV.

Slebodnik, K., **J.R. Reeve**, J.M. Norton, J.W. MacAdam and S. Lee. 2019. Utilization of tannin-containing forages for sustainable beef production in the Intermountain West. Soil Science Society of America, January 7-9<sup>th</sup>, San Diego, CA.

Creech, J.E., \*M. Deakin, **J.R. Reeve**, D. Hole, A. Jacobson. 2018. Long-Term Compost Effects in Dryland Organic Wheat-Fallow Systems. American Society of Agronomy, Baltimore, MD.

\*Loveland, L., J.E. Creech, **J.R. Reeve**, M. Yost. 2018. Strategies for quinoa seed production in high temperature environments. Western Society of Crop Science Annual Meeting. Laramie, WY.

Creech, J.E., I. Burke, **J.R. Reeve**. 2018. Compost carryover and cover crop effects on soil quality, profitability, and cultivar selection in organic dryland wheat. USDA OREI PD Meeting. Washington DC.

\*Atoloye, I., **J.R. Reeve**, A. Jacobson, J.E. Creech, 2018. Effects of a one-time compost application on soil moisture variability in dryland organic wheat. March 27<sup>th</sup>. Spring Runoff Conference. Logan, UT.

\*Slebochnik, K., J.M. Norton, J.W. MacAdam, **J.R. Reeve**. 2018. Effects of tannins on nitrogen cycling in pasture soils. Spring Runoff Conference, March 27<sup>th</sup>, Logan, UT.

Norton, J.M., \*Ouyang, Y., **J.R. Reeve**. 2017. Nitrogen management affects microbial communities and enzyme activities in an organic farming system. Soil Science Society of America annual meeting. October 24<sup>th</sup>, Tampa, FL.

Villalba, J.J., J. MacAdam, **J.R. Reeve**, J. Norton, M.-K. Kim, A. Caplan and R. Brain. 2017. Tannin-containing legumes in pasturelands and their ecological services. USDA NIFA, October 20-23<sup>rd</sup>, Tampa, FL.

**Reeve, J.R.**, \*E. Braithwaite and B.L. Black. 2017. Nitrogen use efficiency in strawberry (*Fragaria ananassa*). American Society of Horticultural Sciences. September 19–22<sup>nd</sup>, Waikoloa, HI.

\*Adeleke, K., **J.R. Reeve**, J.E. Creech, \*M. Deakin and \*I. Atoloye. 2017. Effects of cover crops and compost on soil water availability in organic dryland wheat. Western Nutrient Management Conference. March 1-3<sup>rd</sup> 2017, Reno NV.

\*Atoloye, I., **J.R. Reeve**, A. Jacobson and J.E. Creech. 2017. Effects of a one-time compost addition on soil health in a rain fed dryland organic wheat system. Western Nutrient Management Conference. March 1-3<sup>rd</sup> 2017, Reno NV.

Murphy, K., **J.R. Reeve**, J.E. Creech, L. Hinojosa, P.J. Maughan, E. Jellen, J. Kellogg, S. Machado, K. Ludvigson, K. Shroeder, D. Finkelnburg, G. Wu, G. Ganiyal, C. Ross, C. Morris, D. Packer. 2016. Quinoa cultivation in western North America: Lessons learned. American Society of Agronomy. November 8, Phoenix, AZ.

\*Ouyang, Y., J.M. Norton, **J.R. Reeve**., J.M. Stark. 2016. Effect of organic nitrogen management on soil enzymes activities and enzyme capacity. Soil Science Society of America. November 8, Phoenix, AZ.

Norton, J.M., J.M. Stark, **J.R. Reeve**, \*Y. Ouyang, \*A. Kakaar, M.Y. Habteselassie. 2016. Functional and molecular diversity in nitrogen cycle enzymes soil enzymes under contrasting agricultural management systems. USDA AFRI and NIQWP Project Directors Meeting. October 12-13, Washington DC.

**Reeve, J.R.**, L.A. Hoagland, J.J. Villalba, P.M. Carr, A. Atucha, C. Cambardella and K. Delate. 2016. Linking soil health, food crop quality and human health. Food Bioactives and Health. September 13-15, Norwich, United Kingdom.

Creech, J.E., \*M. Deakin, **J.R. Reeve** and D.J. Hole. 2016. Compost carryover and cover crop effects in dryland organic wheat in Utah. Western Society of Crop Science. Madison, WI. June 2016.



Alston, D.G., C. Nischwitz, D.T. Drost, **J.R. Reeve**, C. Ransom, R.A. Ward. 2016. System drivers of IPM for onion thrips and Iris yellow spot virus in onion. Pacific Branch of the Entomological Society of America. April 3-6, Honolulu, HI.

\*\*Nafziger, G., \*C.M. Culumber, **J.R. Reeve**, B. Black. 2016. Statistical analysis of organic non-chemical weed controls on peach tree fruit yield. Utah Conference of Undergraduate Research. February 19, Salt Lake City, UT.

Carr, P.M., **J.R. Reeve**, A. Atucha, L.A. Hoagland and J. Villalba. 2015. Linking soil quality to human nutrition: the organic farming connection. American Society of Agronomy. November 15-18, Minneapolis, MN.

\*Buckland, K.R. **J.R. Reeve**, J.E. Creech. 2015. Developing organic quinoa cropping systems for Utah. American Society of Agronomy. November 15-18, Minneapolis, MN.

\*Thomsen, E., **J.R. Reeve**, \*C.M. Culumber. 2015. On-farm soil quality testing in organic, and conventional peach orchard systems. Soil Science Society of America. November 15-18, Minneapolis, MN.

\*Ouyang, Y., J.M. Norton, J.M. Stark, **J.R. Reeve**. 2015. Response of ammonia-oxidising bacteria and archaea to ammonium availability in an agricultural soil under contrasting N fertilization. Soil Science Society of America. November 15-18, Minneapolis, MN.

\*Thomsen, E., **J.R. Reeve**, \*C.M. Culumber. 2015. On-farm soil quality testing in organic, and conventional peach orchard systems. Soil and Water Conservation Society. July 26-29, Greensboro, NC.

\*Ouyang, Y. J.M. Norton, J.M. Stark, **J.R. Reeve**. 2015. Nitrification kinetics and temperature response of ammonia-oxidizing bacteria and archaea under contrasting N fertilization. 4<sup>th</sup> International Conference on Nitrification. June 30<sup>th</sup>. Edmonton, Alberta.

\*Nafziger, A. K.R. \*Buckland, **J.R. Reeve** and J.E. Creech. 2015. Developing quinoa for production in Utah. Western Society of Crop Science. June 16-17, Logan, UT.

Alston, D.G., C. Nischwitz, \*B. Bunn, D.T. Drost, **J.R. Reeve**, C.R. Ransom, \*K. Buckland, \*A. Swaine. 2015. Field and farmscape IPM for onion thrips and Iris yellow spot virus. 10<sup>th</sup> International Symposium on Thysanoptera and Tospoviruses. May 16-20, Pacific Grove, CA.

Alston, D.G., C. Nischwitz, D.T. Drost, **J.R. Reeve**, C. Ransom, R.A. Ward. 2015. System drivers of IPM for onion thrips and Iris yellow spot virus in onion. 8<sup>th</sup> International Integrated Pest Management Symposium. March 23-26, Salt Lake City, UT.

Alston, D.G., C. Nischwitz, D. Drost, \*B. Bunn, \*K. Buckland, **J.R. Reeve**, C. Ransom. 2014. Field and farmscape management effects on Thrips tabaci and Iris yellow spot virus transmission in onion. Entomological Society of America. November 16-19, Portland, OR.

**Reeve, J.R.**, A. Atucha, C.A. Cambardella, P.M. Carr, D. Davis, K. Delate, L.A. Hoagland, J.M. Grossman, K. Jacobsen and J. Villalba. 2014. Organic farming, soil

health and food crop quality: Considering possible linkages. Soil Science Society of America. November 2-5, Long Beach, CA.

\*Buckland, K., **J.R. Reeve** and E. Creech. 2014. Developing organic quinoa cropping systems for the Western United States. American Society of Agronomy. November 2-5, Long Beach, CA.

\*Ouyang, Y., J.M. Norton, J. Stark, **J.R. Reeve** and M.Y. Habteselassie. 2014. Ammonia-oxidizing bacteria rather than archea dominantly contribute to nitrification in an agricultural soil under contrasting N sources. Soil Science Society of America. November 2-5, Long Beach, CA.

Norton, J.M., \*Y. Ouyang, M.C. Rice, J.M. Stark and **J.R. Reeve**. 2014. Nitrification under contrasting N management: From soils to genomes and back again. Soil Science Society of America. November 2-5, Long Beach, CA.

\*Thomsen, E. \*C.M. Culumber and **J.R. Reeve**. 2014. On-farm soil quality testing in organic, integrated and conventional peach orchard systems. American Society for Horticultural Sciences. July 27-30, Orlando, FL.

Alston, D.G., C. Nischwitz, D. Drost, \*B. Bunn, \*K. Buckland, **J.R. Reeve**, C. Ransom. 2014. Landscape and field-scape effects of thrips and iris yellow spot virus in onion systems. Entomological Society of America. April 6-9, Tucson, AZ.

\*Clemensen, A. **J.R. Reeve**, J.J. Villalba. 2014. Understanding Plant Secondary Compounds in Grazing Systems; Above and Below Ground. Society for Range Management. February 8-13, Orlando, FL.

\*Tebeau, A.S., D.G. Alston, **J.R. Reeve**, B.L. Black, and C.V. Ransom. 2013. European earwig (*Forficula auricularia*) responses to understory treatments in organically and conventionally managed peach orchards of northern Utah. 60<sup>th</sup> Annual Meeting of the Entomological Society of America. November 11-14, 2013, Knoxville, TN.

\*Culumber, C.M., **J.R. Reeve**, B.L. Black, C.V. Ransom, D.G. Alston. 2013. Organic orchard floor management impacts soil nitrogen cycling and soil quality indicators. Soil Science Society of America. November 3-6, Tampa, FL.

Norton, J. M., \*Y. Ouyang, J. M. Stark, **J.R. Reeve**. 2013. Nitrification and nitrogen mineralization in an agricultural system with contrasting nitrogen sources. Soil Metagenomics Argonne Labs. October 4, Bloomington, IL.

Norton, J. M., \*Y. Ouyang, J. M. Stark, **J.R. Reeve**. 2013. Nitrogen source effects on nitrification, mineralization and ammonia oxidizers in an agricultural system. International Conference on Nitrification 3. September 3. Tokyo, Japan.

Hall, K.L., **Reeve J.R.**, Steinitz, T. 2013. Mentoring Student Interns in Farm-to-Fork Opportunities. NACTA Conference, June 25-29, Virginia Tech, Blacksburg, V.A.

**Reeve, J.R.**, K. Hall and T. Steinitz. 2013. The development of a student run organic farm. Association for Environmental Studies and Sciences, June 19-22, Pittsburgh, PA.

**Presented prior to gaining tenure at Utah State University**

\*Culumber, C.M., **J.R. Reeve**, B.L. Black, C.V. Ransom, D.G. Alston, \*A. Tebeau, T. Lindstrom. 2012. Organic orchard floor management impacts soil nitrogen cycling and tree nitrogen uptake. Soil Science Society of America. October 21-24, Cincinnati, OH.

**Reeve, J.R.**, B.L. Black, C.V. Ransom, D.G. Alston, \*C.M. Culumber, \*A. Tebeau, T. Lindstrom 2012. Approaches for establishing organic stone-fruit orchards in Utah and the Intermountain West. American Society for Horticultural Sciences. July 31- Aug 3, Miami. FL.

**Reeve, J.R.**, B.L. Black, C.V. Ransom, D.G. Alston, \*C.M. Culumber, \*A. Tebeau, T. Lindstrom, R. Ward, and S. Martini. 2012. Developing organic stone-fruit production options for Utah and the Intermountain West. International Society of Horticultural Sciences. June 18-21, Leavenworth, WA.

\*Culumber, C.M., and **J.R. Reeve** 2012. Evaluating orchard floor management effects on soil quality. International Society of Horticultural Science. June 18-21, Leavenworth, WA.

\*Tebeau, A.S., D.G. Alston, **J.R. Reeve** 2012. Arthropod responses to understory management in organic peach orchards in northern Utah. International Society of Horticultural Science. June 18-21, Leavenworth, WA.

\*Tebeau, A.S., D.G. Alston, **J.R. Reeve**, B.L. Black, and C.V. Ransom 2012. European earwig (*Forficula auricularia*) responses to understory treatments in organically and conventionally managed peach orchards of northern Utah. 96<sup>th</sup> Annual Conference of the Pacific Branch Entomological Society of America. March 25-28, Portland, OR.

\*Olsen, D., J.R., **J.R. Reeve**, \*J.B. Endelman, D.T. Drost, and A.R. Jacobson. 2011. Compost carryover as measured by yield, mineralizable nitrogen, and Fourier Transform Infrared Spectroscopy in response to one-time applications in an organic field trial. Soil Science Society of America. October 16-19 San Antonio, TX.

**Reeve, J.R.**, B.L. Black, \*M.A. Rowley, D.G. Alston, C.V. Ransom. 2011. Developing organic stone-fruit systems for Utah and the Intermountain west. American Society for Horticultural Sciences September 25-28, Waikoloa, HI.

Carr, P.M., C.A. Cambardella, C.G. Cogger, K. Delate, W.B. Evans, **J.R. Reeve**, and X. Zhao. 2011. A new multi-state research coordinating committee for linking food quality to soil health benefits following adoption of organic management systems. American Society for Horticultural Sciences. September 25-28, Waikoloa, HI.

\*Rowley, M.A., C.V. Ransom, **J.R. Reeve**, B.L. Black. 2011. Weed suppression using organic herbicides and mulch combinations. Weed Science Conference, February 7-10 Portland, OR.

**Reeve, J.R.**, B.L. Black, \*M.A. Rowley, D.G. Alston, C.V. Ransom. 2011. Developing organic stone-fruit systems for Utah and the Intermountain west. Organic Farming Systems Research Conference. March 16-18, Washington DC.

**Reeve, J.R.**, \*J.B. Endelman, and D.J. Hole. 2011. Long-term compost carryover on soil quality and yield of dryland organic winter wheat. International Conference of

Environmental, Cultural, Economic and Social Sustainability 5-7<sup>th</sup> January, Hamilton, New Zealand.

**Reeve, J.R.**, D.T. Drost, D.G. Alston. 2010. Taking a whole farm approach to managing onion thrips and Iris Yellow Spot virus. American Society of Agronomy. October 30 – November 3, Long Beach, CA.

\*Buckland, K., **J.R. Reeve**, D.T. Drost, D.G. Alston. 2010. Effects of nitrogen and crop rotation on onion thrips, Iris Yellow Spot virus and onion yield. American Society for Horticultural Sciences, August 2-5, Palm Desert, CA.

**Reeve, J.R.**, L. Carpenter-Boggs, S. Fransen, H. Semmsdorf. Biodynamic spray preparations may improve soil pH and forage quality. 2010. International Conference of Environmental, Cultural, Economic and Social Sustainability 3-7<sup>th</sup> January, Cuenca, Ecuador.

\*Endelman, J.B., **J.R. Reeve**, D.T. Drost. 2009. A new decay series for organic crop production. American Society of Agronomy, November 1-5, Pittsburgh, PA.

**Reeve, J.R.**, B.L. Black, D.G. Alston, C.V. Ransom. 2009. Developing organic and reduced-input tree-fruit production options for the Wasatch front. US International Association of Landscape Ecology Conference. April 12-16, Snowbird, UT.

Alston, D.G., **J.R. Reeve**, C.K. Evans, D.T. Drost. 2009. Cultural management of onion thrips and Iris Yellow Spot virus. Pacific Branch Entomological Society of America, March 29 – April 1, San Diego, CA.

**Reeve, J.R.**, D.G. Alston, C.K. Evans, D.T. Drost. 2008. Cultural management of onion thrips and Iris Yellow Spot virus. Western SARE Regional Conference, Cheyenne, WY.

Drost, D.T., **J.R. Reeve**, D.G. Alston, C.K. Evans. 2008. Cultural management of onion thrips and Iris Yellow Spot virus. National Allium Research Conference, Savanna, GA.

**Reeve, J.R.**, J.L. Smith, L. Carpenter-Boggs, J.P. Reganold. 2004. Plant uptake of organic molecules as N source. Agronomy Abstracts (#6448) American Society of Agronomy, Madison, WI.

**Reeve, J.R.**, J.P. Reganold, D. Huggins, J.D. Glover, and L. Carpenter-Boggs. 2002. Agroecosystem Research Trials. Natural Systems Agriculture Workshop, The Land Institute, Matfield Green, K.S.

## **INVITED SPEAKER**

### **Presented since gaining tenure at Utah State University**

Sustainable Agriculture in Europe. April 21<sup>st</sup>. 2018. USU Permaculture Workup. USU Extension, Logan, UT.

Organic fertilizer principles. Urban and Small Farms Workshop. February 23<sup>rd</sup>, 2018, West Jordan, UT.

Developing sustainable farming systems for Utah and the Intermountain West. May 31<sup>st</sup>, 2017. Fibl, Frick, Switzerland.

What is Organic and Sustainable Agriculture Anyway? Science Unwrapped. Utah State University. January 29<sup>th</sup>, 2016. Logan, UT.

Use of cover crops in orchards, vineyards and vegetables. Western Colorado Horticultural Society. January 21<sup>th</sup>, 2016. Grand Junction, CO.

Soils and cover crops: A six year comparison study in peach production. Western Colorado Horticultural Society. January 20<sup>th</sup>, 2016. Grand Junction. CO.

Organic peach research in Utah. Urban and Small Farms Workshop. February 19<sup>th</sup>, 2015, West Jordan, UT.

Soil fertility management in organic orchard systems. Organic Farming Workshop. April 16, 2014, Hurricane, UT.

An update of organic peach research at Utah State University. Utah State Horticultural Association Winter Meeting, January 21-22, 2014, Spanish Fork, Utah.

Panel Discussion: Genetically modified crops. Access Utah, Utah Public Radio, April 17, 2013.

Panel Discussion: Genetically modified crops. Social Soup Lecture Series, University of Utah. March 27, 2013, Salt Lake City, Utah.

**Presented prior to gaining tenure at Utah State University**

Soil Formation processes and physical properties of soils. Biodynamic Winter Intensive Farm Intern Training. Hawthorne Valley Farm Learning Center, February 20-21, 2012 Hawthorne Valley, New York.

Soil Fertility: Applications for organic/biodynamic farming. Hawthorne Valley Farm Learning Center, February 20-21, 2012 Hawthorne Valley, New York.

Five years of research with the biodynamic preparations. Hawthorne Valley School Public Lecture, February 21, 2012. Hawthorne Valley, New York.

Organic and integrated orchard floor management. Utah State Horticultural Association Winter Meeting, January 30 – February 1, 2012, Provo, Utah.

Organic and integrated orchard floor management. Western Colorado Horticulture Convention. January 17-19, 2012, Grand Junction, Colorado.

Cover Crops for Orchards: Establishment, biomass production, weed suppression and water use. Western Colorado Horticulture Convention. January 17-19, 2012, Grand Junction, Colorado.

Panel Discussion: Secrets of Highly Effective Proposal Writing: Selling the idea to the panel and best practices for describing the management, evaluation, and impact. USDA Principle Director Workshop. American Society of Horticultural Sciences. September 26, 2011, Waikoloa, Hawaii.

Panel Discussion: Farming for Change: The economics of organic farming. Social Soup Lecture Series, University of Utah. February 15, 2011, Salt Lake City, Utah.

Nitrogen and a whole farm approach to Iris Yellow Spot virus management. Utah Onion Association, February 15, 2011, Brigham City, Utah.

Building a local and regional food coalition in the Intermountain west. American Society for Agronomy. November 1-3, 2010, Long Beach, California.

Sustainable agriculture in Utah. Sustainability Symposium. Wallace Stegner Center for Land, Resources and the Environment at the University of Utah S.J. Quinney College of Law. March 12-13, 2010, Salt Lake City, Utah.

Sustainable tree fruit production in Utah. Extension Fruit Pest In-Service Workshop. March 2, 2010, Utah State University, Logan, Utah.

Nitrogen and a whole farm approach to managing Iris Yellow Spot virus. Utah Onion Association, February 16<sup>th</sup>, 2010, Brigham City, Utah.

Influence of biodynamic preparations on grape pomace compost and resultant compost extracts on wheat seedling growth. Making and Use of Compost Conference. Washington Association of Wine Grape Growers. February 3-5, 2010, Kennewick, Washington.

The USU Student Organic Farm. Sustainability Conference. Eccles Conference Center, April 9<sup>th</sup> 2009, Logan, Utah.

Nitrogen and a whole farm approach to managing Iris Yellow Spot virus. Utah Onion Association, February 17<sup>th</sup>, 2009, Brigham City, Utah.

The USU Student Organic Farm. Bioneers Conference, Eccles Conference Center, October 17<sup>th</sup> 2008, Logan, Utah.

Systems research round table. Western SARE, June 24-25, 2008, Spokane, Washington.

Cover crop management in orchards. Natural Resource Conservation Service Training Day, May 28<sup>th</sup> 2008, Santaquin, Utah.

Compost research on a biodynamic vineyard. Biodynamic Farming and Gardening Association National Conference. Healing our Earth, Healing Ourselves, August 24-26, 2007, Sacramento, California.

## **GRANTS AND FUNDING**

### **Obtained since gaining tenure at Utah State University**

2019-2023 USDA OREI \$1,919,856

From Compost Carryover to Compost Legacy: Intercropping and compost effects on yield, quality and soil health in organic dryland wheat. Principle Investigators: **Jennifer Reeve** and Earl Creech. Collaborators: Astrid Jacobson, Kynda Curtis, Ian Burke, Jay Norton, Urszula Norton, Patrick Carr, Matt Yost, Ryan Larson and Man-Keun Kim.

2019-2021 Utah Agricultural Experiment Station Seed Grant \$76,132

Microbiological controls on soil aggregation under varying agricultural management regimes. Principle Investigator: Bonnie Waring. Collaborator: **Jennifer Reeve**

2018-2020 Utah Agricultural Experiment Station Seed Grant \$60,000

Scenario analysis of ecosystem services of agricultural land along the Wasatch Front, Utah. Principle Investigator: **Jennifer Reeve**. Collaborators: Arthur Caplan, Man-Keun Kim, Brent Chamberlain, Jennifer MacAdam and Curtis Dyreson.

2018-2020 Western SARE Graduate Student Research Award \$20,204  
Utilizing tannin-containing forages and Holos software for sustainable beef production in the Intermountain West. Principle Investigator: **Jennifer Reeve**; Collaborators: Jeanette Norton and Jennifer MacAdam.

2016-2020 USD OREI 1,999,950  
Breeding and agronomy of quinoa for organic systems. Principle Investigator: Kevin Murphy; Collaborators: Filipe Barrios-Masas, Earl Creech, David Crowder, Girish Ganjyal, Eric Jellen, Jeff Maughan, Kate Painter, **Jennifer Reeve**, John Reganold, Craig Sheaffer.

2016-2019 Specialty Crops Block Grant Program 9,608  
Legume understory cover crops for sustaining soil fertility, tree growth and yield in mature peach orchards, part 2. Principle Investigator: **Jennifer Reeve**; Collaborator: Brent Black.

2016-2019 USDA NIFA 500,000  
Tannin-containing legumes in pasturelands and their ecological services. Principle Investigator: Juan Villalba. Collaborators: Jennifer MacAdam, Man-Keun Kim, Arthur Caplan, **Jennifer Reeve**, Roslynn Brain and Jeanette Norton.

2016-2017 USDA NIFA 150,000  
Linking nitrification to microbial community in agroecosystems. Principle Investigator: Jeanette Norton. Collaborators: John Stark, Scott Jones and **Jennifer Reeve**.

2015-2018 Specialty Crops Block Grant Program 11,559  
Legume understory cover crops for sustaining soil fertility, tree growth and yield in mature peach orchards. Principle Investigator: **Jennifer Reeve**; Collaborators: Brent Black, Corey Ransom, and Kynda Curtis.

2015-2016 Great Salt Lake Brine Shrimp Cooperative, Inc. 9,080  
Suitability of Artemia cyst shell as organic fertilizer. Principle Investigator: **Jennifer Reeve**.

2014-2018 USDA Organic Agriculture Research and Extension Initiative \$1.5M  
Compost carryover and cover crop effects on soil quality, profitability and cultivar selection in organic dryland wheat. Principle Investigators: Earl Creech and **Jennifer Reeve**; Collaborators: Kynda Curtis, Astrid Jacobson, David Hole, Ian Burke, Jay Norton, Urszula Norton, Axel Garcia, and Randall Fortenberry.

2014-2015. Western SARE Graduate Student Research Award \$24,844  
Simple on-site soil quality testing in Utah orchards. Principle Investigator: **Jennifer Reeve**; Collaborator: Grant Cardon.

2014-2015 Specialty Crops Block Grant Program 9,500

Developing reduced input conventional orchard floor management options for soil quality, pests, and efficient water use. Principle Investigator: **Jennifer Reeve**; Collaborators: Brent Black, Corey Ransom, and Diane Alston.

2013-2016 Western SARE Research and Education Grant \$169,299  
Onion systems management strategies for crop nutrition, weeds, thrips and iris yellow spot virus. Principle Investigator: Diane Alston. Collaborators: Claudia Nischwitz, Corey Ransom, **Jennifer Reeve**, Daniel Drost and Ruby Ward.

2013-2014 Specialty Crops Block Grant Program 9,500  
Developing reduced input conventional orchard floor management options for soil quality, pests, and efficient water use. Principle Investigator: **Jennifer Reeve**; Collaborators: Brent Black, Corey Ransom, and Diane Alston.

**Obtained prior to gaining tenure at Utah State University but active since**

2012-2016 USDA Organic Agriculture Research and Extension Initiative \$1,603,653  
Developing adapted varieties and optimal management practices for quinoa in diverse environments. Principle Investigator: Kevin Murphy; Collaborators: Byung-Kee Baik, Earl Creech, Kefyalew Desta, Jessica Goldberger, Stephen Machado, Jeff Maughan, Janet Matanguihan, Steve Petrie, **Jennifer Reeve**.

2012-2015. NRCS CIG program. \$69,352  
Compost carryover and cover crop cocktails for innovative soil conservation and fertility in dryland grain systems. Principle Investigator: **Jennifer Reeve**; Collaborators: Earl Creech and Astrid Jacobson.

2012-2013 UAES Grants Program \$22,500  
Changes in microbial community composition, structure, and functional activity in response to organic peach orchard management practices. Principle Investigator: **Jennifer Reeve**.

2012-2013 Specialty Crops Block Grant Program 10,000  
Developing reduced input conventional orchard floor management options for soil quality, pests, and efficient water use. Principle Investigator: **Jennifer Reeve**; Collaborators: Brent Black, Corey Ransom, and Diane Alston.

2012-2013 Utah Agricultural Experiment Station Grant \$22,500  
Changes in microbial community composition, structure, and functional activity in response to organic peach orchard management practices. Principle Investigator: **Jennifer Reeve**.

**Obtained and active prior to gaining tenure at Utah State University**

2011-2012 Utah State University Research Catalyst Grant \$20,000  
Compost carryover effects on yield, soil quality and profitability in dry land organic wheat production systems. Project co-Leaders: Earl Creech, **Jennifer Reeve**, Kynda Curtis and David Hole.

2011-2012 Utah State University SPARC Grant \$30,000



Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change. Project co-Leaders: Jennifer MacAdam, Jenny Norton, Larry Hipps, Scott Jones, Astrid Jacobson, **Jennifer Reeve**, Earl Creech, Debra Spielmaker, Jong-Su Eun, Kynda Curtis, John Stark, Jim Dorward, Zhao Ma, Dawn Thilmany, Rich Conant, Keith Paustian, Edzard van Santen and Kris Johnson.

2011-2012 UAES Grants Program \$1,703

Crucial mechanical weeding equipment for organic row crop and vegetable research at the Greenville Experiment Station. Project Leader: **Jennifer Reeve**.

2011-2012 UAES Grants Program \$9,125

Developing an orchard for investigating integrated tart cherry management. Project co-Leaders: Corey Ransom, Brent Black, **Jennifer Reeve**, Diane Alston and Claudia Nischwitz.

2011-2012 Specialty Crops Block Grant Program \$10,000

Developing reduced input conventional orchard floor management options for soil quality, pests, and efficient water use. Principle Investigator: **Jennifer Reeve**; Collaborators: Brent Black, Corey Ransom, Diane Alston and Claudia Nischwitz.

2010-2014 USDA AFRI Microbial Communities in Soil \$498,000

Functional and molecular diversity in nitrogen cycle enzymes under contrasting agricultural management systems. Principle Investigator: Jeanette Norton; Collaborators: John Stark, Mussie Habteselassie and **Jennifer Reeve**.

2010-2014 USDA Organic Agriculture Research and Extension Initiative \$1,019,411

Improving organic milk production through the use of the condensed tannin-containing forage legume birdsfoot trefoil. Principle investigator: Jennifer Macadam; Collaborators: Joe Brummer, Jong-Su Eun, C. Wilson Grey, Deb Heleba, Anowar Islam, Donald McMahon, **Jennifer Reeve**, Glenn Shewmaker, Allen Young.

2010-2011 USU Internal Seed Grant \$60,000

Innovative perennial based solutions to productivity constraints in Mozambique. Project Co-leaders Christopher Neale and **Jennifer Reeve**

2010-2011 UAES Grants Program \$23,520

Replacement of essential equipment for the analysis of nitrate, ammonium and phosphate in soils and waters. Project co-Leaders: Jeanette M. Norton, **Jennifer Reeve**, John, M. Stark, Kelly Kopp.

2010-2011 UAES Grants Program \$18,000

Preliminary data collection on the effect of Birdsfoot Trefoil finishing pasture systems on soil organic matter and establishment of a collaboration team for a NIFA Climate Change Coordinated Agricultural Project grant. Project co-Leaders: Astrid R. Jacobson, Jennifer MacAdam and **Jennifer Reeve**.

2010-2011 Specialty Crops Block Grant Program \$9,000

Developing reduced input conventional orchard floor management options for soil quality, weeds, and efficient water use. Principle Investigator: **Jennifer Reeve**; Collaborators: Brent Black and Corey Ransom.

2009-2013 USDA Organic Agriculture Research and Extension Initiative \$637,519  
Organic Stone-Fruit Production: Optimizing water use, fertility, pest management, fruit quality and economics. Principle Investigator: **Jennifer Reeve**; Collaborators: Brent Black, Diane Alston, Corey Ransom, Silvana Martini and Ruby Ward.

2009-2012 USDA Managed Ecosystems \$374,133  
Primary Roles for Secondary Compounds: Enhancing the health of soils, plants, herbivores and people through plant biochemical diversity. Principle Investigator: Fred Provenza; Collaborators: **Jennifer Reeve**, Jennifer MacAdam, Juan Villalba, Daren Cornforth, Silvana Martini, Robert Ward, Beth Burritt and Rae Ann Hart.

2009-2010 Specialty Crops Block Grant Program \$9,000  
Developing organic and reduced input orchard floor management options for soil quality, weeds, and efficient water use. Principle Investigator: **Jennifer Reeve**; Collaborators: Brent Black and Corey Ransom.

2008-2011 Western SARE Research and Education Grant \$133,441  
Cultural management of onion thrips and Iris Yellow Spot virus. Western SARE Research and Education Grant. Principle Investigator: **Jennifer Reeve**; Collaborators: Diane Alston, Dan Drost, and Kent Evans.

2008-2016 Utah Agricultural Experiment Station Funds. \$120,000  
Diversification of sustainable farming systems in Utah. Principle Investigator: **Jennifer Reeve**.

2008-2009 Specialty Crops Block Grant Program \$12,000  
Developing organic and reduced input orchard floor management options for soil quality, weeds, and efficient water use. Principle Investigator: **Jennifer Reeve**; Collaborators: Brent Black and Corey Ransom.

2008-2009 New Faculty Grant, Utah State University \$13,800  
Organic N uptake by strawberry and variety selection for organic and low input systems. Principle Investigator: **Jennifer Reeve**.

2008-2009 USU Extension Applied Research Program. \$10,000  
Developing organic options for orchard floor management. Principle Investigator: Brent Black; Collaborators: **Jennifer Reeve**, and Corey Ransom.