

CURRICULUM VITAE

Russell Tronstad

Education

- Ph. D. Agricultural Economics, Univ. of Illinois, May 1989.
Dissertation director: Dr. C. Robert Taylor
Dissertation title: Optimal Dynamic Marketing Strategies for Grain Producers: A Case Study of Winter Wheat.
Major Fields: Marketing and Production specialty course field exams were taken.
- M.S. Applied Economics, Montana State University, July 1985.
Thesis director: Dr. John Marsh
Thesis title: An Analysis of Monthly Wheat, Flour, and Bread Prices in a Structural and Time Series Framework
- B.S. Agricultural Business, Montana State University, June 1983.

Employment

- 2008–present University Distinguished Outreach Professor and Specialist, Department of Agr. and Resource Economics, The University of Arizona, Tucson, AZ.
Extension appointment includes improving Arizona producers' and county agents' marketing and management proficiency through workshops, seminars, lay publications, in-service training, electronic media, direct contacts, and other appropriate methods. Research activities focus on applied marketing and management issues for livestock and crop producers that will complement extension efforts.
- 2004-2008 Professor and Specialist, Department of Agricultural and Resource Economics, The University of Arizona, Tucson, AZ. *(see above)*
- 1995–2004 Associate Specialist, Department of Agricultural and Resource Economics, The University of Arizona, Tucson, AZ. *(see above)*
- 1997–1998 Visiting Scholar at the University of Alberta, Edmonton while on sabbatical leave from the University of Arizona, Tucson, AZ.
Sabbatical work focused on a value-based beef marketing project sponsored by The Canadian Beef Industry Development Fund.
- 1989–1995 Assistant Specialist, Department of Agricultural and Resource Economics, The University of Arizona, Tucson, AZ. *(see above)*
- 1989
(4 months) Research Associate, Dept. of Agricultural Economics and Rural Sociology, Auburn University, Auburn, AL.
Completed dissertation and started work on a cotton hedging/storage model.

Honors and Awards

US Patent and Trademark, October 2022, Patent #11,468,207, *Systems and Methods for Simulation-Based Resource and Layout Optimization*, (with S. Masoud, Y.J. Son, and C. Kubota)

US Non-Provisional Patent Application, UA #20-202, Sept. 2022, *Automated Work-Flow Analysis using Ultra-Wide Band based Real-Time Localization System*, (with B. Chowdhury, Y.J. Son, C. Kubota)

AAEA Extension Graduate Student Competition, Honorable Mention, July 2020, “Connecting Locavores with Local Producers in the Cloud,” mentor for Elena Chin.

US Non-Provisional Patent Application, UA #18-160, May 2019, *Systems And Methods For Simulation-Based Resource And Layout Optimization*, exclusive license purchased by Grafted Growers (with S. Masoud, Y.J. Son, C. Kubota)

Best Paper Award, Data Analytics and Information Systems Track, Institute of Industrial and Systems Engineering, May 2019, *Markov-Chain Monte-Carlo Sampling for Optimal Fidelity Determination in Dynamic Decision-Making*, (with S. Masoud, B. Chowdhury, and Y.J. Son)

Finalist for paper in Data Analytics and Information Systems Track, Institute of Industrial and Systems Engineering. May 2018, *A Dynamic Modelling Framework for Human Hand Gesture Task Recognition*, (with S. Masoud, B. Chowdhury, Y.J. Son, and C. Kubota)

Southwest Indian Agricultural Association, Tribal Agricultural Education Appreciation Award, January 2017.

WAEA President-Elect, President, and Past President, 2010 to 2013.

Journal of Agricultural and Resource Economics, Outstanding Journal Article Award, 2011.

University Distinguished Outreach Professor Award, University of Arizona, 2008.

Distinguished Extension/Outreach Program Group Award, member of “U.S. Livestock Identification Systems: Risk Management and Market Opportunities,” American Agricultural Economics Association, 2007.

Distinguished Extension Project Award, project leader of “Innovations in Niche and Value-Added Marketing,” Western Agricultural Economics Association, 2006

Extension Faculty of the Year Award, University of Arizona, 2005.

Distinguished Extension Project Award, member of “U.S. Livestock Identification

Systems: Risk Management and Market Opportunities,” Western Agricultural Economics Association, 2005.

Co-Editor, *Journal of Agricultural and Resource Economics*, 2000–03.

Distinguished Extension Program Award, member of Managing for Today’s Cattle Market and Beyond, American Agricultural Extension Association, 1997.

Outstanding Extension Project Group Award, member of Managing for Today’s Cattle Market and Beyond, Western Agricultural Extension Association, 1997.

United States Department of Agriculture/Agricultural Research Service National Needs Fellowship in Agricultural Marketing, August 1985–August 1988.

Service/Outreach (since 2001)

National/Regional Committees and Activities

- Editor, Western Economics Forum, Western Agricultural Economics Association, 2023/26.
- Western Agricultural Economics Association Extension Awards Committees, 2020-2022.
- Panel review member of Small Business Innovation Research (SBIR), USDA/NIFA Small to Medium-Sized Grants, (about 40 proposals each year) 2013–2017 and 2022 -- online.
- Panel review member of USDA/NIFA FRTEP Grants, 2022 – online.
- Panel review member of Beginning Farmer Grants, 5-day trip to Washington D.C., USDA/NIFA to review proposals face-to-face, March 2015, April 2016, June 2019 and June 2020--online.
- Editorial Board for Choices, American Agricultural Economics Association, 2017-present.
- Chair of WAEA Graduate Student Papers / Presentations, WAEA Annual Meeting, Colorado Springs, CO, June 22–24, 2014.
- CFARE Annual Meeting in Washington D.C. for WAEA, as part of Past-President Duties, May 20–22, 2013.
- WAEA Website Redesign Committee Chair, 2012/13.
- Vice President, Western Agricultural Economics Association, 2007–08, and organizer of selected paper sessions for the 2008 and 2009 WAEA Annual Summer Meetings.
- Organizer of AAEA Selected Paper Reviews for “Extension Methods/Issues” and “Food and Agricultural Marketing,” 2004–2005.
- Director of the American Agricultural Extension Association Extension Section for the West, 2002–2005.
- Co-Editor, *Journal of Agricultural and Resource Economics*, 2000–03.
- Journal reviewer for the *American Journal of Agricultural Economics*, *Journal of Agricultural and Resource Economics*, *Agriculture*, *Applied Economics and Teaching Resources*, *Applied Sciences*, *Review of Agricultural Economics*, *Canadian Journal of Agricultural Economics*, *Choices*, *Computers*, *Economic Research Service Reports*,

Journal of Agricultural and Applied Economics, Journal of Crop Protection, Journal of Regulation and Governance, Journal of Range Management, Journal of the American Veterinary Medical Association, International Journal of Services, Operations, and Informatics, Journal of Agricultural and Food Science in Finland, Resource and Energy Economics, National Academies of Sciences, Agriculture, Environments, and Computers.

- External Reviewer of Promotion & Tenure Packets; Associate Rank (2005, 2009, 2011, 2012, 2013, 2015, 2017, 2018, 2021, 2022, and 2023) and promotion to Full (2011, 2014, 2016, 2017, 2019, and 2022).
- Reviewer of Grants, OMAFRA/U of Guelph Emergency Management Research Theme(1), and USDA/CSREES, NRI, Market and Trade Division Grant Proposals (4).
- Steering Committee Member, Southwest Marketing Network (Initially funded by the W.K. Kellogg Foundation and currently funded by Risk Management Agency through Farm to Table in Santa Fe and the National Center for Appropriate Technology). The Network works to increase market information and networking, and access to financial assistance to small-scale and minority producers, 2002–2012.
- Director, Western Agricultural Economics Association, 1999–2001.
- Planning Committee for the 2001 North American Farmers Direct Marketing Association Conference in Mesa, Arizona.
- Listserve Manager/Updater for the Western Extension Marketing Committee, 1995–2018.

Departmental Committees / Activities

- Annual CALS State FFA Career Development Event: Agribusiness Management (with Na Zuo), 2022 to present.
- Search committee member for Behavioral Economics Assistant Professor, 2023.
- Search committee chair for Agribusiness Economics Assistant Professor, 2022.
- Department Merit Evaluation Committee Chair/Member, 2004/06, 2009/10, 2013/14, 2017/18, 2020/22.
- Initiative for Agency and Development (IfAD), member, 2018–present.
- Search committee member for Assistant Professor of Agribusiness, 2016/17
- AREC Head Dr. Thompson’s five-year Review Committee, 2016/17.
- Acting Dept. Head, as needed, 2008 to 2014.
- Departmental Promotion and Continuing Committee; Member, 2002–03.
- Co-Editor of *Arizona Review*, 2003–2007.
- Search committee member for Assistant Professor, 2002.
- Host for short-term visiting faculty, 2001.

College and University Committees and Working Groups

- University, Promotion and Continuing Committee, Member 2019/20, and 2021/22, Chair for 2020/21.
- Dean’s Research Advisory Committee, 2017/21.
- Intra-Extension Advisory Council Committee, 2016/20.
- CALS, Promotion and Continuing Committee, 2004/06 (Chair 2006), 2013/17 (Vice-Chair in 2015 and 2016).

- Henry and Phyllis Koffler Award for Research/Scholarship/Creative Activity, 2016/17.
- Dean Dr. Burgess' five-year Review Committee, 2016/17.
- CALS Faculty Merit Based Taskforce Committee, 2015/16.
- Distinguished Professor Committee member, 2016.
- University, Promotion and Continuing Committee, Member 2007/09, Chair for 2009/10.
- 1885 Scholars Committee member, 2012 to 2014.
- Search Committee member for two CALS Grants and Contract Business Manager Positions, 2013.
- Search Committee member for Animal Sciences, 2011 and 2012.
- Search Committee member for Extension Director, 2011–2012.
- Mentor for Cooperative Extension Faculty, 2006–present.
- Managing Editor for Univ. of Arizona Cotton Report, 2004–2008.
- Range Livestock Nutrition Working Group Member, 2004–present.
- Integrated Crop Management Team Member, 2003–present.

Other Committees/Activities

- Editorial Board for *Choices*, American Agricultural Economics Association, 2017–present.
- Alan Alda Center training for leadership and communication, 2019.
- Arizona-Sonora Geotourism Council; National Geographic map of Geotourism for the Sonoran Desert Region, 2006–07.
- Governor's Drought Task Force; Commerce, Recreation and Tourism Working Group, 2003–05.
- RightRisk/Survivor Ag Education Team, Member 2001–2012 (collaboration of livestock risk management education between Colorado State & University of Wyoming, www.rightrisk.org).
- Arizona Council on Expanding Recreation and Tourism (ACERT), Member 2001–2008.
- Member of Agricultural and Applied Economics Association, Western Agricultural Economic Association, Western Extension Marketing Committee, and Livestock Marketing Information Center (2001 -- present).

Publications/Creative Activity (Published or Accepted)

Scholarly Books and Monographs

Tronstad, Russell, Larry Lev, Stuart Nakamoto, DeeVon Bailey, Chris Bastian, Kynda Curtis, Ramiro Lobo, Wendy Umberger, and Ruby Ward. *Certification and Labeling Considerations for Western Agricultural Producers*, University of Arizona, Publication AZ1372, September 2005, pp. 1–52.

Western Profiles of Innovative Agricultural Marketing: Examples from Direct Farm Marketing and Agri-tourism Enterprises, **Russell Tronstad** (ed.), University of Arizona Cooperative Extension, Publication AZ1325, December 2003, pp. 1–122.

Tronstad, Russell, Satheesh Aradhyula, and Pablo Wong-González. *Agribusiness: Strategic Economic Development Vision for the Arizona-Sonora Region*. November 1997: 1–180.

Chapters in Scholarly Books and Monographs

Kubota C., C. Meng, S. Masoud, Y.J. Son, and **R. Tronstad**. 2018. “Advanced Technologies for Large-Scale Plant Factories – Integration of Industrial and Systems Engineering Approach in Controlled Environment Crop Production.” In *Plant Factory Using Artificial Light*, eds. M. Anpo, H. FukudaTeruo Wada, Elsevier Publishing, pp. 354–362.

Tronstad, R., and M. Woods. 2018. “Cooperative Extension System: Value to Society.” In G.L. Cramer, K.P. Paudel, A. Schmitz, eds., *The Routledge Handbook of Agricultural Economics*, New York, Routledge Publishing, pp. 728–747.

Tronstad, Russell, “Double Check Ranch: Creativity and Grass-Fed Beef Marketing Facilitate Family’s Ranching Visions.” *Western Farm & Ranch Transition Strategies*, Utah State University, 2013, available online at www.valueaddedag.org.

Tronstad, Russell, “Wong Farms: Pioneer Railroad Worker to Modern Cotton Corporation.” *Western Farm & Ranch Transition Strategies*, Utah State University, 2013, available online at www.valueaddedag.org.

Tronstad, Russell. Evaluating Market Size. In *Niche Markets: Assessment and Strategy Development for Agriculture*, Kynda Curtis (ed.), University of Nevada, Reno, Technical Report UCED 2007/08–13, 2:1–8.

Tronstad, R., C. Kubota, M.A. McClure, and M. Olsen. A preliminary comparison of organic, grafted, and conventional cantaloupe production under subsurface drip irrigation. In *Niche Markets: Assessment and Strategy Development for Agriculture*, Kynda Curtis (ed.), University of Nevada, Reno, Technical Report UCED 2007/08–13, 9:1–9.

Dyer, J, D. Lamm, L. Oberholtzer, K. Pepinsky, N. Richman, and **R. Tronstad**. *The Organic Market in the Four Corners States*, Southwest Marketing Network and Colorado State University, 2008, 1–45.

Frisvold, George, **Russell Tronstad**, Robert L. Nichols, Mike Watson, and Eric Hequet. “Scope and Economic Impact of Sticky Cotton.” In *Sticky Cotton, Causes, Effects, and Prevention*, R. L. Nichols, E. Hequet (eds.), USDA/ARS Technical Bulletin #1915, June 2007: 5–30.

Frisvold, George, **Russell Tronstad**, and Jeanne M. Reeves. “International Impacts of Bt Cotton Adoption.” In *International Trade and Policies for Genetically Modified*

Products, R.E. Evenson and V. Santaniello (eds.), *International Trade and Policies for Genetically Modified Products*. Oxfordshire, U.K.: CABI Publishing, 2006: 191–199.

Aradhyula, Satheesh, and **Russell Tronstad**. “Estimating Seasonality in the Mean and Variance.” In *Essays in Honor of Stanley R. Johnson*, M. Holt, and J. P. Chavas (eds.), Berkeley Electronic Press. Article 20. (September 2006): 1–23, available at <http://www.bepress.com/sjohnson/art20>.

Tronstad, Russell, “Challenges of Animal Identification in the West.” In *U.S. Livestock Identification Systems: Risk Management and Market Opportunities*, W. Umberger and D. Bailey (eds.), Western Extension Marketing Committee, FS#10-04, Fall 2004, 10:1–8.

Frisvold, George, and **Russell Tronstad**. “Economic Effects of Bt Cotton Adoption and the Impact of Government Programs.” In *Economic and Environmental Impacts of Agbiotech: A Global Perspective*, N. Kalaitzandonakes (ed.), Dordrecht, The Netherlands: Kluwer Academic Press, 2003: 261–286.

Tronstad, Russell. “A Project that Quickly Mushroomed into a Large Direct Marketing Business: Sunfresh Farms.” In *Western Profiles of Innovative Agricultural Marketing*, R. Tronstad (ed.), Pub. AZ1325, U of AZ Coop. Extension, 2003: 55–62.

Tronstad, Russell. “Southwest’s Premier Family Entertainment Farm: Schnepf Farms.” In *Western Profiles of Innovative Agricultural Marketing*, R. Tronstad (ed.), Pub. AZ1325, U of AZ Coop. Extension, 2003: pp. 67–74.

Tronstad, Russell. “Marketing the Farm Experience and Diverse Products: Mother Nature’s Farm.” In *Western Profiles of Innovative Agricultural Marketing*, R. Tronstad (ed.), Pub. AZ1325, U of AZ Coop. Extension, 2003: pp. 75–81.

Umberger, Wendy, Larry Lev, and **Russell Tronstad**. “Guiding Principles for Innovative Direct Marketing of Agricultural Products.” In *Western Profiles of Innovative Agricultural Marketing*, R. Tronstad (ed.), Pub. AZ1325, U of AZ Coop. Extension, 2003: pp. 119–122.

Tronstad, Russell and Jim Unterschultz. “Industry Opportunities and Issues for Value Based Marketing.” *Managing for Today's Cattle Market and Beyond*, Beef Industry’s Future Section, March 2002: 1–8.

Tronstad, Russell, Wilson Gray, and Lee Meyer. “Weather Related Sales of Livestock and Tax Implications.” *Managing for Today's Cattle Market and Beyond*, Integrated Management Section, March 2002: 1–5.

Tronstad, Russell, and Scott Davis, “Arizona and Its Traditional Economy.” In

Moving all of Arizona into the 21st Century Economy, S.G. Davis, D.A. de Kok, and M.A. Worden (eds.), Prepared for the seventy-eighth Arizona Town Hall, Report prepared by the University of Arizona, May 2001: 11–30.

Ruyle, George, **Russell Tronstad**, Diana W. Hadley, Philip Heilman and David A King. “Commercial Livestock Operations in Arizona.” In *Ecological, Cultural, and Socioeconomic Aspects of Livestock Management in the Southwest*, R. Jemison, C. Raish and D. Finch (eds.), Elsevier Science Press, Amsterdam Netherlands, 2000: 379–417.

Leones, Julie, **Russell Tronstad**, and Jimmye S. Hillman. “The Dickey Business of Agricultural Trade Policy: Where Does NAFTA Take Us?” Invited Article for *The University of Tulsa Law Journal*, (28) Summer 1993: 559–585.

Tronstad, Russell, and Russell Gum. “A Profit Comparison of Range Culling Decisions in the Southwest.” In *Applications of Dynamic Programming to Agricultural Decision Problems*, C. Robert Taylor (ed.), Westview Press, 1993: 103–114.

Ayer, Harry, and **Russell Tronstad**. “Impacts on Arizona’s Economy and the Role of Transportation: Agriculture,” In *Free Trade: Arizona at the Crossroads*, V.K. Pavlakovich and M.A. Worden (eds.), Prepared for sixty-first Arizona Town Hall, Arizona Public Service Company Press, November 1992: 99–114.

Ayer, Harry, and **Russell Tronstad**. “Perceptions: How a U.S. -Mexico Free Trade Agreement Might Affect Yuma County Agriculture.” In *Yuma County in a Free Trade Environment*, B.C. Catts (ed.), Arizona Public Service Company Press, April 1992: 44–55.

Refereed Journal Articles

Sall, I, **R. Tronstad**, C. Chin. 2023. “Alfalfa Export and Water Use Estimates for Individual States.” *Western Economics Forum*, 21(1), 5-18. <https://doi.org/10.22004/ag.econ.337181>.

Sall, I, and **R. Tronstad**. 2023. “U.S. Export and Domestic Feed Price Trends, 1994-2022” *Western Economics Forum*, 21(1), 54-66. <https://doi.org/10.22004/ag.econ.337181>.

Mpanga, I., G. Neumann, J. Brown, J. Blankinship, **R. Tronstad**, and J. Idow. 2023. “Grape pomace’s potential on semi-arid soil health enhances maize, wheat, and grape crops.” *J. of Plant Nutrition and Soil Science*, 1-10. <https://doi.org/10.1002/jpln.202200232>.

Mpanga, I.K., H. Sserunkuma, **R. Tronstad**, Pierce, M, Brown, J.K. 2022. “Soil Health Assessment of Three Semi-Arid Soil Textures in an Arizona Vineyard Irrigated

with Reclaimed Municipal Water,” *Water*, 14(18), 2922.
<https://doi.org/10.3390/w14182922>.

Chowdhury, B.D.B., Y.J. Son, C. Kubota, and **R. Tronstad**. 2022. “Automated Workflow Analysis in Vegetable Grafting using an Ultra-Wide Band based Real-Time Indoor Location Tracking System. *Computers and Electronics in Agriculture*, Vol. 194, ISSN 0168-1699, pp. 1-14, doi: 10.1016/j.compag.2022.106773.

Chowdhury, B.D.B., S. Masoud, Y.J. Son, C. Kubota, and **R. Tronstad**. 2021. “A Dynamic HMM-Based Real-Time Location Tracking System Utilizing UHF Passive RFID. *IEEE Journal of Radio Frequency Identification*, vol. 6, pp. 41-53, doi: 10.1109/JRFID.2021.3102507

Sall, I., and **R. Tronstad**. 2021. “Simultaneous Analysis of Insurance Participation and Acreage Response from Subsidized Crop Insurance for Cotton” *Journal of Risk and Financial Management*, special issue on Agricultural Insurance and Risk Management, 14, no. 11: 562, 1-20. <https://doi.org/10.3390/jrfm14110562>

Mpanga, I., K., **R. Tronstad**, J. Guo, D. LeBauer, and J. O. Idowu. 2021 “On-Farm Land Management Strategies and Production Challenges in United States Organic Agricultural Systems.” *Current Research in Environmental Sustainability*, Elsevier, 1-7. <https://www.sciencedirect.com/science/article/pii/S2666049021000736>

Tronstad, R., R. Gupta, and C. Kubota. 2021. “Cost estimates for grafted, non-grafted, and direct-seeded cantaloupes.” *Acta Horticulturae*, 1302, 141-146.
doi.org/10.17660/ActaHortic.2021.1302.19

Masoud, S., C. Meng, B. Chowdhury, Y.J. Son, C. Kubota, and **R. Tronstad**. 2021. “GRANDES: an online decision support tool for grafting nurseries.” *Acta Horticulturae*, 1302, 125-32. doi.org/10.17660/ActaHortic.2021.1302.17

Chowdhury, B.D.B., S. Masoud, Y.C. Son, C. Kubota, and **R. Tronstad**. 2020. “A dynamic driven indoor localisation framework based on ultra high frequency passive RFID system. *International Journal of Sensor Networks*, 34(3), 172-187.
doi.org/10.1504/IJSNET.2020.111236

Masoud, S., B.D. Chowdhury, Y.J. Son, C. Kubota, and **R. Tronstad**. 2019. “Simulation Based Resource and Layout Optimization for Grafting.” *Computers and Electronics in Agriculture*, 163:104845, 1-12.
doi.org/10.1016/j.compag.2019.05.054

Masoud, S., B.D. Chowdhury, Y.J. Son, C. Kubota, and **R. Tronstad**. 2019. “A dynamic modeling framework for human hand gesture task recognition.” *arXiv preprint arXiv: 1911.03923*.

- Sall, I., **R. Tronstad**, and S. Aradhyula. 2019. “Beef Production Alliance Preferences for Vertical Integration: A Bivariate Nested Panel Probit Approach.” *Journal of Agricultural and Resource Economics* 44(1):165–179.
- Masoud, S., Y.J. Son, C. Kubota, and **R. Tronstad**. 2018. “Evaluation of Simulation-Based Optimization in Grafting Labor Allocation” *Applied Engineering in Agriculture* 34(3):479–489.
- Kubota C, C. Meng, Y-J. Son, M. Lewis, H. Spalholz, and **R. Tronstad**. 2017. “Horticultural, systems-engineering and economic evaluations of short-term plant storage techniques as a labor management tool for vegetable grafting nurseries,” *PLoS ONE* 12(2): e0170614. doi:10.1371/journal.pone.0170614
- Chieri Kubota, Myles Lewis, **Russell Tronstad**, and Young-Jun Son. 2014. “Scenario-based Cost Analysis for Vegetable Grafting Nurseries of Different Technology and Size.” *HortScience*, 49(7):9117–930.
- Chao Meng, Dong Xu, Young-Jun Son, Chieri Kubota, Myles Lewis, and **Russell Tronstad**. 2014. “An Integrated Simulation and AHP Approach to Vegetable Grafting Operation Design.” *Computers and Electronics in Agriculture*, 102:73–84.
- Tronstad, Russell**, “Unpleasant Lessons from the Settlement of the West: Implications for the WAEA and Other Professional Associations.” *Journal of Agricultural and Resource Economics*, 36(3) 2011:242–256 (Presidential Address, refereed but single blind review).
- Timothy J. Richards, Peter Ellsworth, **Russell Tronstad**, and Steve Naranjo, “Market-Based Instruments for the Optimal Control of Invasive Insect Species: *B. Tabaci* in Arizona.” *Journal of Agricultural and Resource Economics*, 35(3) 2010:349–367.
- Thompson, Gary, Satheesh Aradhyula, George Frisvold, and **Russell Tronstad**, “Does Paying Referees Expedite Reviews? Results of a Natural Experiment.” *Southern Economic Journal*, 76(3), 2010: 678–692.
- Frisvold, George, Jeanne M. Reeves, and **Russell Tronstad**. “Bt Cotton Adoption in the United States and China: International Trade and Welfare Effects.” *AgBioForum*, Vol. 9(2), 2006:69–78.
- Tronstad, Russell**, and James Unterschultz. “Looking Beyond Value-Based Pricing of Beef in North America.” *Supply Chain Management: An International Journal*, Vol 10(3), 2005:214–222.
- Tronstad, Russell**, Trent Teegerstrom, and Daniel Osgood. “The Role of Electronic Technologies for Reaching Underserved Audiences.” *American Journal of Agricultural Economics*, Vol. 86(3), August 2004:767–771.

- Tronstad, Russell,** and Trent Teegerstrom. “Economic Trade-Offs Between Sale Weight, Herd Size, Supplementation, and Seasonal Factors.” *Journal of Range Management*, Economics Section, Vol. 56(4), September 2003: 425–431.
- Aradhyula, Satheesh, and **Russell Tronstad**. “Does Tourism Promote Cross-Border Trade?” (senior authorship not assigned) *American Journal of Agricultural Economics*, Vol. 85(3), August 2003: 569–579.
- Tronstad, Russell,** Larry Lev, and Wendy Umberger. “Surviving and Thriving through Direct Farm Marketing.” *Western Economics Forum*, Vol. 2(2), Fall 2003: 14–20.
- Tronstad, Russell,** Jeff Silvertooth, and Steve Husman. “Irrigation Termination of Upland: An Economic Analysis of Yield, Quality, and Market Factors.” *Journal of Cotton Science*, Economics and Marketing Section, Vol. 7(3), 2003: 86–94.
- Tronstad, Russell,** and Dillon Feutz. “Impacts of the 2002 Drought on Western Ranches and Public Land Policies.” *Western Economics Forum*, Vol. 1(2), Dec. 2002:19–24.
- Tronstad, Russell,** and Pablo Wong-González. “Cross Border Trade and Perceptions: Friend or Foe?” *Review of Agricultural Economics*, Vol. 21(1), Spring/Summer 1999: 68–85.
- Gum, Russell and **Russell Tronstad**. “The World Wide Web: Applications in Agricultural Economics.” *Choices*, First Quarter 1996: 34–36.
- Tronstad, Russell.** “Importance of Melon Type, Size, Grade, Container, and Season in Determining Melon Prices.” *Journal of Agricultural and Resource Economics*, Vol. 20(1), July 1995: 32–48.
- Tronstad, Russell** and Russell Gum. “Cow Culling Decisions Adapted for Management with CART.” *American Journal of Agricultural Economics*, Vol. 76(2), May 1994: 237–249.
- Tronstad, Russell.** “The Effects of Firm Size and Production Cost Levels on Dynamically Optimal After-Tax Cotton Storage and Hedging Decisions,” *Southern Journal of Agricultural Economics*, Vol. 23(1), July 1991: 165–179.
- Tronstad, Russell,** and C. Robert Taylor. “Dynamically Optimal After-Tax Grain Storage, Cash Grain Sale, and Hedging Strategies.” *American Journal of Agricultural Economics*, Vol. 73(1), February 1991: 75–88.
- Tronstad, Russell,** and Thomas J. McNeill. “Asymmetric Price Risk: An Econometric Analysis of Aggregate Sow Farrowings, 1973–86.” *American Journal of Agricultural Economics*, Vol. 71(3), August 1989: 630–637.

Tronstad, Russell, and C. Robert Taylor. “Effects of the 1986 Tax Reform Act on Grain Marketing Decisions: A Case Study of Winter Wheat Producers.” *North Central Journal of Agricultural Economics*, Vol. 11(2), July 1989: 309–320.

Research and Extension Reports (since 2001, peer reviewed)

Nakamoto, S.T., T. Teegerstrom, U. Schuch, **R. Tronstad**, and A. Kawabata. 2023. “Nursery Break-Even Price and Profit Estimator.” University of Hawaii Cooperative Extension, OF-57. [Link](#)

Nakamoto, S.T., T. Teegerstrom, U. Schuch, **R. Tronstad**, and A. Kawabata. 2023. “User Guide to Examples Using the Nursery Break-Even Price and Profit Estimator.” University of Hawaii Cooperative Extension, OF-58. [Link](#)

Chowdhury, B.D.B., T. Islam, Y.J. Son, and **R. Tronstad**. 2021. “Optimal Deployment of Indoor Sensors for a Real-Time Location Tracking System. In *IIE Annual Conference Proceedings*. Institute of Industrial Systems Engineers (IISE), pp.1171-1176. [Link](#)

Mpanga, Isaac, R. Tronstad, J. Schalau, U. Schuch, H. Wilson, C. Stuth, and H. Braun. 2021. “COVID 19 effects on farming activities in AZ and how farmers and ranchers responded.” University of Arizona Cooperative Extension Bulletin (22), pp. 1-21. [Link](#)

Masoud, S., X. Meng, B. Chowdhury, Y.J. Son, C. Kubota, & **R. Tronstad**. 2019. “GRANDES: An online decision support tool for grafting nurseries.” Proceedings of II International Symposium on Vegetable Grafting, pp. 1-8. [Link](#)

Tronstad, Russell, Rajat Gupta, and Chieri Kubota. 2019. "Excel cost budget template estimates for growing grafted, non-grafted, and direct seeded cantaloupes in Arizona; Basic information, land preparation, and production management.” Grafting working group template, Proceedings of II International Symposium on Vegetable Grafting, pp. 1-6. [Link](#)

Masoud, S., B. Chowdhury, Y.J. Son, and **R. Tronstad**. 2019. “*Markov-chain Monte-Carlo Sampling for Optimal Fidelity Determination in Dynamic Decision Making.*” In 2019 Institute of Industrial and Systems Engineers (IISE) Annual Conference and Expo, *IISE 2019*, New Orleans. [Link](#)

Masoud, S., B. Chodhury, Y.J. Son, C. Kubota, and **R. Tronstad**. 2019. “*A Dynamic Modeling Framework for Human Hand Gesture Task Recognition.*” *IISE* paper, pp. 1-6. [Link](#)

Tronstad, R. November 2017. “*Pasture Rangeland Forage – Rainfall Index,*” Arizona Range and Livestock Newsletter, Cooperative Extension, pp. 4–5. <http://uacals.org/3xp>

- Teegerstrom, T. and **R. Tronstad**. “*Arizona Ranching Budgets: 2016*,” UA Cooperative Extension Report AZ1734-2017, March 2017, pp. 1–33.
- Kerna, A., G. Frisvold, **R. Tronstad**, and T. Teegerstrom. “*The Contribution of the Beef Industry to the Arizona Economy*,” Cooperative Extension Report, May 2014.
- Teegerstrom, T., S. Nakamoto, **R. Tronstad**, “Producer Business Checkup.” University of Hawaii Cooperative Extension Bulletin, June 2013.
- Teegerstrom, T., **R. Tronstad**, and S. Nakamoto, “An Overview of Risk Management Agency Insurance Products and Farm Service Agency Programs Available for Arizona Agricultural Producers as of December 2012, *Arizona Coop. Extension Publication*, AZ1587, January 2013.
- Tronstad, R.**, K. Nolte, E. Norton, R. Norton, and E. Taylor. “Review of the 2006 Arizona Cotton Season.” *2007 Arizona Cotton Report*, Pub. No. AZ1437, 2007: 1–4.
- Waters, Heather, and **Russell Tronstad**. “The Costs of Illegal Immigration to Arizona’s Border Ranches.” *Arizona Review*, 2007.
- Tronstad, Russell**, (with Eugene Sander) “An Interview with Provost Sander.” *Arizona Review*, 2007.
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Tronstad, Russell, Jim Sprinkle, and Trent Teegerstrom. “Evaluating Management Decisions.” pp. 157–174.

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Tronstad, Russell, “Agronomics vs. Markets: Irrigation Termination.” *Cotton Management Economic Note Series*, August 14, 2001.

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- Tronstad, R./LMIC**, 2023. “*Livestock Monitor Newsletter – Hay Stocks Record Low*,” *Arizona Cattlelog*, 77(4) February p. 18.
- Tronstad, R./LMIC**, 2022. “*Livestock Monitor Newsletter – Feeder Cattle Prices*,” *Arizona Cattlelog*, 77(4) December pp. 20-21.
- Tronstad, R./LMIC**, 2022. “*Livestock Monitor Newsletter – Cattle on Feed and Female Beef Slaughter Numbers*,” *Arizona Cattlelog*, 77(3) November pp. 21-22.
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- Tronstad, R./LMIC**, 2022. “*Livestock Monitor Newsletter – July Cattle Report*,” *Arizona Cattlelog*, 76(12) August pp. 24-25.
- Tronstad, R./LMIC**, 2022. “*Livestock Monitor Newsletter – Beef Exports and Avian Influenza*,” *Arizona Cattlelog*, 76(11) July pp. 21-22.
- Tronstad, R./LMIC**, 2022. “*Livestock Monitor Newsletter – Record Pork and Poultry Prices*,” *Arizona Cattlelog*, 76(9) May pp. 22-23.
- Tronstad, R./LMIC**, 2022. “*Livestock Monitor Newsletter – Beef Imports and Cattle Feeding Returns*,” *Arizona Cattlelog*, 76(8) April pp. 22-23.
- Tronstad, R./LMIC**, 2022. “*Livestock Monitor Newsletter – Beef Cow Inventories*,” *Arizona Cattlelog*, 76(6) February pp. 26-27.
- Tronstad, R./LMIC**, 2022. “*Livestock Monitor Newsletter – Hay Production, Stocks, & Prices*,” *Arizona Cattlelog*, 76(5) January pp. 21-22.
- Tronstad, R./LMIC**, 2021. “*Livestock Monitor Newsletter*,” *Arizona Cattlelog*, 76(4), December pp. 22-23, 39.
- Tronstad, R.** and Y. Quiroz. 2021. “*SWOT Business Plan Analysis for Gila River Indian Community Farms*.” Confidential report provided to Gila River Farms, pp. 1-23.
- Montes, S., J. Lou and **R. Tronstad**, 2021. “*San Xavier Cooperative Farm Meat Processing Facility: Feasibility Study*.” Project sponsored by USDA/Rural Development, Confidential report provided to San Xavier Farm, pp. 1-85.

Tronstad, R. 2021 “*Feasibility Analysis of Adding Wagyu Jerky, Snack Sticks, and Sausage over Selling only Wagyu Steaks and Hamburger for Elevation Beef Co., LLC.*” Confidential report provided to Elevation Beef Co., pp. 1-13.

Tronstad, R. 2021 “*Business Plan Analysis for Elevation Beef Co., LLC.*” Confidential report provided to Elevation Beef Co., pp. 1-9.

Masoud, S., X. Meng, B. Chowdhury, Y.J. Son, C. Kubota, & **R. Tronstad.** 2019. “GRANDES: An online decision support tool for grafting nurseries.” Proceedings of II International Symposium on Vegetable Grafting, pp. 1-8. [Link](#)

Tronstad, R., K.G. Cannon, A. Wright, and K.O. Cannon. 2018. “*Economics of Culling of Feeding Cows During Drought,*” *Arizona Cattlelog*, Sept., pp. 40–43.

Livestock Monitor. About monthly (2005 to present), a market situation newsletter for livestock, forages, feed grains, and international trade is emailed to over 1,300 producers and extension individuals throughout Arizona. A synopsis of each newsletter along with other relevant information for Arizona is sent with a two-page pdf file of the newsletter.

Livestock Record Keeping Workbooks. Over 2,800 of these workbooks have been distributed, largely in tribal areas, to help them better record and manage their livestock. The Navajo Nation Department of Agriculture has required grazing permit holders on the tribe to complete the forms included in the workbook and regularly update these records in order to utilize their permit. Updated livestock record keeping workbooks have also been distributed to beginning ranchers.

Crop Record Keeping Workbooks. Over 1,900 of these workbooks have been distributed to small-scale and beginning farmers helping them obtain loans, in many cases their first farm loan through FSA, and better record daily field activities, weather events, and harvested crop yields.

POS Systems. Website of <https://pos-systems.farmmanagement.org/> contains scripted webinar recordings of producers, government agencies, and agribusiness individuals on using Point of Sale software for managing direct marketing activities of the farm and combining these records with Whole Farm Revenue Protection.

AginUncertaintimes.farmmanagement.org: Since the pandemic started, online webinars have been hosted, recorded, and made available on this website covering issues from USDA Food Box Program, Dairy Risk Management, Food Distribution Systems, Western Water Systems, and Climate Risk for U.S. Agriculture.

Beginning Farmer and Rancher Presentations. Over 60 presentations from 2019 to 2022 are available online at: <https://extension.arizona.edu/beginning-rancherfarmer-video-resources>.

GRANDES -- GRAFTing Nursery Decision Support system. GRANDES is a simulation-based decision support system. The goal of GRANDES is to help vegetable seedling propagators with facility design decisions (e.g. capacity) and operational decision (e.g. workforce skill and schedule) via providing estimated facility capacity and costs (<https://www.grandes.arizona.edu>).

Small Farm Cost Estimator was developed (specialtycrops.arizona.edu) to determine break-even values when allocating both fixed and variable production costs for operations utilizing hoop houses, green houses, and small open fields for growing specialty crops.

www.localfresh.info This dynamic web portal is designed to connect consumers with direct farm marketers and farmers markets. The site allows producers to enter their harvest calendars and markets into an online database that consumers can then search for their products and markets. Entering product availability using a Point of Sale export from Square is currently in development with programming expertise from the CALS Communications and Cyber Technology Team.

Ranch Restocking Decision Aide Spreadsheet. This template allows for differences in biological productivity of purchased versus raised replacements and allows a rancher to compare the long-term financial consequences associated with alternative restocking paths. Supplementation, including the use of controlled behavior grazing supplements like low moisture blocks, can be evaluated in this spreadsheet template.

Crop Solver. This spreadsheet template optimizes a crop mix of up to 20 different crops subject to land, monthly labor, water, and capital, and alternative risk constraints. Costs and returns are entered in a format consistent with the U of AZ crop budgets. Risk is evaluated in both a diversification and dollar limit framework. A mixed integer routine is used to determine whether crop insurance should be purchased for a crop that it is available for.

Scholarly Presentations (since 2001)

Seminars/Conferences

Tronstad R., “*Global Dairy Forage Demands and Water Scarcity,*” selected symposium presentation at the CAES & WAEA/WEC Joint Annual Meeting, Whistler, B.C., July 28, 2023.

Tronstad R., “*Supply Chain Issues and Meat Packing Plants: Beef Margins,*” selected presentation at the WAEA/WEC annual meeting, Santa Fe, NM, June 27, 2022.

Sall, I., **R. Tronstad**, E. Chin, “*Spatial Analysis of Alfalfa Prices and Exports,*” selected presentation at the AAEE & WAEA Joint Annual Meeting, online, Austin, TX, August 1-3, 2021.

Tronstad, R., R. Gupta, and C. Kubota, “*Cost estimates for grafted, non-grafted, and direct seeded cantaloupes.*” Poster presented at the II International Symposium on Vegetable Grafting, Charlotte, North Carolina, USA, July 14-18, 2019.

Tronstad, R. and E. Chin. “*Feasibility of a Local Food Center: A Discrete Choice Analysis.*” presentation at the 2019 WAEA Annual Meeting, Coeur d’Alene ID, July 2, 2019.

Chin, E. and **R. Tronstad.** “*Revealed Preferences of Food Shopping Environments for Farmers Market Shoppers, Online Respondents, and General Consumers: A Survey Experiment.*” Paper presented at the 2019 WAEA Annual Meeting, Graduate Student Competition, Coeur d’Alene ID, July 1, 2019.

Chin, E., **R. Tronstad,** and S. Aradhyula. “*A Discrete Choice Analysis of Food Shopping Attributes Desired in Yavapai County, AZ.*” Poster presented at the 2019 WAEA Annual Meeting, Coeur d’Alene, ID, June 30 to July 2, 2019.

Chowdhury, B., S. Masoud, Y. Son, C. Kubota, and **R. Tronstad,** “*A Dynamic HMM-based Objects Tracking utilizing UHF Passive RFID,*” IISE Annual Conference and Expo 2019, Orlando, FL, May 20, 2019.

Tronstad, R., L. Runfeng. “*Determinants and Spatial Relationships of U.S. Alfalfa Prices.*” Paper presented at the 2018 WAEA Annual Meeting, Anchorage, AK, June 25, 2018.

Tronstad, R., E. Daly, M. Woods, and J. Trapp. “*CES Recent Funding Trends, Formula Allocations, and Directions for Building State Support.*” Paper presented at the 2017 WAEA Annual Meeting, Lake Tahoe, NV, July 10, 2017.

Tronstad, R. and P. Thiesse, “*Quantifying Weekly Beef Production Using Monthly Feeder Cattle Placements,*” Paper presented at the 2016 WAEA Annual Meeting, Victoria, Canada, June 26, 2016.

Tronstad, R., M.R. Emerick, I. Sall, “*U.S. Cotton Acreage Response to Subsidized Crop Insurance, 1995 to 2011,*” Agricultural & Applied Economics Association’s Crop Insurance and the 2014 Farm Bill Symposium, Louisville, KY, October 8–9, 2014, available online at ageconsearch.umn.edu.

Hiol, P., **R. Tronstad,** and J. Walworth, “*Optimal Pruning Frequency of Pecans.*” Paper Presented at the 2014 WAEA Annual Meeting, Colorado Springs, CO, June 24, 2014.

Meng, C., Y.J. Son, C. Kubota, M. Lewis, **R. Tronstad.** “*Simulation-Based Decision Support System in Cost Estimation for Vegetable Grafting Propagation.*” Paper presented at the 2013 Vegetable Grafting Symposium, San Diego, CA, November 7, 2013.

- F. Saeed, **R. Tronstad**, and S. Aradhyula, “*Willingness to Pay from the Mouth vs. Wallet: A Restaurant Field Experiment with Beef*” Paper Presented at the 2013 WAEA Annual Meeting, Monterey, CA, June 27, 2013.
- F. Saeed, **R. Tronstad**, and S. Aradhyula, “In-Restaurant Field Experiment of Factors that Influence Consumer Choice of Beef Attributes.” Paper Presented at the 2012 WAEA Annual Meeting, Park City, UT, June 21, 2012.
- M. Lewis, C. Kubota, and **R. Tronstad**, “Scenario-Based Economic Analyses of Different Grafting Operation Sizes.” Presented at the Development of Grafting Technology to Improve Sustainability and Competitiveness of the US Fruiting Vegetable Industry, hosted by the 2012 Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions, available online at mbao.org.
- Russell Tronstad**, Chieri Kubota, Michael A. McClure, and Mary Olsen, “Economic Considerations of Grafted Seedlings in Southwestern U.S. Muskmelon Production.” *2009 Annual International Research Conference Proceedings on Methyl Bromide Alternatives and Emissions Reductions*, available online at mbao.org.
- Chieri Kubota, Michael A. McClure, **Russell Tronstad**, and Mary Olsen, “Evaluation of Grafted Seedlings in Commercial Muskmelon Production in Southwestern United States.” *2009 Annual International Research Conference Proceedings on Methyl Bromide Alternatives and Emissions Reductions*, available online at mbao.org.
- Thompson, Gary, Satheesh Aradhyula, **Russell Tronstad**, “Impacts of Reference Prices on Imports of Fresh Tomatoes from Mexico.” 2008 Western Ag. Econ. Assoc. Annual Meeting, Big Sky, MT, June 2008.
- Thompson, Gary, Satheesh Aradhyula, **Russell Tronstad**, “North American Trade Suspension Agreement and Winter Tomato Supply Response.” 2007 Western Ag. Econ. Assoc. Annual Meeting, Portland, OR, July 2007.
- Tronstad, Russell**, “Effectively Communicating Research Results with a Poster: Opportunities and Challenges.” 2007 American Agricultural Economics Association Annual Meeting, Organized Symposium, Portland, OR, July 2007.
- Tronstad, Russell** and Heather Waters, “Modeling Federally Inspected Steer and Heifer Slaughter Marketings Using Lagged Feedlot Placement Data.” 2006 Western Ag. Econ. Assoc. Annual Meeting, Anchorage, AK, July 2006.
- Tronstad, Russell**, Jeffrey Silvertooth, and Abraham Galadima, “Early Irrigation Termination of Cotton as a Drought Mitigation Tool.” 2006 Western Ag. Econ. Assoc. Annual Meeting, Anchorage, AK, July 2006.

Tronstad, Russell, “From Farm to Fork: Profiles of Innovative Western Direct Marketers.” Organized symposium presented at the *American Agricultural Economics Association Annual Meetings*, Denver, CO, August 1–4, 2004.

Tronstad, Russell, John Marchello, “Price Efficiency of Grid versus Live Pricing,” Selected paper presented at the *Western Economics Association International / Western Agricultural Economics Association Annual Meetings*, Denver, CO, July 11–15, 2003.

Frisvold, George, and **Russell Tronstad**. “Global Impacts of BT Cotton,” Paper presented at the *2003 National Cotton Beltwide Conference*, Memphis, TN, January 9–13, 2003.

Tronstad, Russell, Daniel Osgood, and Robert Young, “Transition of Agricultural Land Ownership and Use,” Selected paper presented at the *Western Agricultural Economics Association Annual Meetings*, Long Beach, CA, July 29–31, 2002.

Aradhyula, Satheesh and **Russell Tronstad**. “Factors Influencing the Propensity for Cross-Border Trade.” Selected paper presented at the *Western Agricultural Economics Association Annual Meetings*, Logan, UT, July 8–11, 2001.

Tronstad, Russell. “Optimal Production Inputs with Varying Quality and Yield Components: Irrigation Termination of Upland.” Selected paper presented at the *Western Agr. Economics Assoc. Annual Meetings*, Logan, UT, July 8–11, 2001.

Teegerstrom, Trent and **Russell Tronstad**. “Managing Herd Composition of Range Cattle: Sale Weight and Seasonal Factors.” Selected paper presented at the *Western Agricultural Economics Association Annual Meetings*, Logan, UT, July 8–11, 2001.

Tronstad, Russell. “Harmonizing Infrastructure Between United States and Mexico.” Invited presentation for *Transportation Bottlenecks in the US-Mexico Food System* sponsored by SAGAR, USDA’s Emerging Markets Program, ERS, and FAS, Laredo, TX, January 24–25, 2001.

Frisvold, George, **Russell Tronstad**, “Overseas Adoption of Bt Cotton: Implications for U.S. Producers.” Paper presented at the *2001 National Cotton Beltwide Conference*, Anaheim, CA, January 9–13, 2001.

Community / Outreach Presentations (since 2015)

2023

- RMA presentation, “*Market Outlook and Policy Issues for 2023*.” Buckeye, AZ, January 11, 2023.
- RMA presentation, “*Marketing Strategies & Reducing Risks*,” at 2023 Southwest Hay & Forage Conference, Ruidoso, NM, January 25-27, 2023.

- Presentations to limited resource (2501) participants, Florence, AZ, February 1, 2023.
 - + *“Key Items for Successful Beginning Small-Scale Farms and Ranches.”*
 - + *“Record Keeping Tools for Managing your Operation.”*
 - + *“John Nevitt Farms overview and tour setup.”*
- Presentations to limited resource (2501) participants, Florence, AZ, March 1, 2023.
 - + *“Records Needed in Applying for FSA Loans and USDA Programs .”*
 - + *“Agritourism Opportunities and Challenges in Pinal County.”*
 - + *“Tyler Hyer Farm overview and tour setup.”*
- RMA presentations, Peach Springs, AZ, April 11, 2023.
 - + *“Cattle Market Situation and Outlook.”*
 - + *“AZ Forage Market Situation and Outlook.”*
 - + *“Livestock Record Keeping: Workbooks and Other Tools.”*
 - + *“Whole Farm Revenue Protection and Micro Farm Insurance.”*
 - + *“Livestock Risk Protection: Subsidy Increase for Feeders.”*
- RMA presentations, Hopi, AZ, April 26, 2023.
 - + *“Livestock Risk Protection Update.”*
 - + *“Record Keeping for Hopi Livestock Producers.”*
 - + *“AZ Forage and Livestock Markets Situation and Outlook.”*
- RMA presentations, Tuba City, AZ, April 27, 2023.
 - + *“Cattle Market Situation and Outlook.”*
 - + *“Livestock Record Keeping Notebooks for Navajo Grazing Permits.”*
 - + *“Farm Service Agency Loans and Updates.”*
 - + *“Whole Farm Revenue Protection and Micro Farm.”*
 - + *“Livestock Risk Protection for Unborn Calves.”*
- Beginning Farmer Presentation, *“Calculating the Economics of Growing Certified Organics.”* Mesa, AZ, May 8, 2023.
- NRCS Soil Health Presentation, *“Economics of Soil Amendments and Cover Crops.”* Cornville, AZ, June 29, 2023.
- Beginning Rancher Presentation, *“Cattle Markets and Strategies for Beginning Ranchers.”* Rimrock, AZ, July 7, 2023.
- UA on-campus training for limited resource individuals (2501 project), Tucson, AZ, July 24-28, 2023.
 - + *“Soil Health and Climate Change.”*
 - + *“USDA Programs for Limited Resource and Socially Disadvantaged Individuals.”*
 - + *“Agritourism Opportunities and Challenges for Southern Arizona.”*
 - + *“Historical Crop Mixes for AZ over Time.”*
 - + *“WFRP and Micro Farm Premium Discounts for Beginning Farmers.”*
 - + *“Food Product Safety Laboratory Tour – arranged.”*
 - + *“Controlled Environmental Agriculture Tour – arranged.”*
- Urban Ag Hour online presentation, *“Small Farm Business Planning and Structure Issues.”* Online, July 26, 2023.
- Mandatory OPPE conference to attend and report for 2501 project, *“2501 Activities and Results for AZ and NM.”* Austin, TX, September 27-28, 2023.
- RMA presentations, *“Managing for El Niño Conditions and USDA Programs Utilized on the Navajo Nation; Fall 2023 Livestock Risk Protection; Cattle Markets and Situation; Crop & Livestock Record Keeping Tools for Navajo Nation.”*

- + Kirtland, NM, October 31, 2023
- + Tuba City, AZ, November 1, 2023
- + Window Rock, AZ, November 2, 2023
- AZCows presentation, “*Livestock Marketing Insurance Options.*” Rimrock, AZ, November 3, 2023.
- Presentations to limited resource (2501) participants, Florence, AZ, October 25, 2023.
 - + “*Water and Weather Challenges for Pinal County.*”
 - + “*Crop Insurance Products to Address Extreme Weather.*”
 - + “*Dusty Desert Homestead farm tour.*”
- Presentations to limited resource (2501) participants, Florence, AZ, November 29, 2023.
 - + “*Results from the 5th National Climate Assessment.*”
 - + “*Cultivating Financial Resiliency.*”
 - + “*Family Roots farm tour.*”

2022

- RMA presentation, “*Market Outlook and Policy Considerations for 2022.*” Buckeye, AZ, January 20, 2022.
- Beginning Rancher Presentations, Florence, AZ, February 1, 2022.
 - + “*Resources for USDA Programs targeting Beginning Ranchers.*”
 - + “*Ideas and Success Stories of Central AZ BFRs.*”
- RMA presentations, San Carlos, AZ, February 10, 2022.
 - + “*USDA Disaster Assistance Tools & Programs for Producers.*”
 - + “*Whole Farm Revenue Protection for Producers on the San Carlos Apache.*”
 - + “*Crop & Livestock Recordkeeping: Workbooks and other Tools.*”
 - + “*Livestock Risk Protection: Marketing Feeder Calves.*”
 - + “*Managing for Disasters and USDA Programs Utilized by San Carlos Apache.*”
- RMA presentations, Gallup, AZ, February 11, 2022.
 - + “*USDA Disaster Assistance Tools & Programs for Producers.*”
 - + “*Whole Farm Revenue Protection for Producers on the Navajo Nation.*”
 - + “*Livestock Risk Protection: Marketing Feeder Calves.*”
 - + “*Managing for Disasters and USDA Programs Utilized by Navajo Nation.*”
- RMA presentation, “*Tracking Revenues through POS Software and Utilizing Whole Farm Revenue Protection from RMA.*” Florence, AZ, March 1, 2022.
- Online RMA presentation, “*Economics of Small-Scale Beef Processing Facilities.*” AZ/UT Virtual Range Workshop, March 23, 2022.
- Beginning Farmer Presentations, Clarkdale, AZ, March 29, 2022.
 - + “*Beginning Farmer Experiences in the Verde Valley.*”
 - + “*Resources for USDA Programs targeting Beginning Ranchers.*”
 - + *Bent River Farms Tour*
- RMA presentations, Peach Springs, AZ, March 30, 2022.
 - + “*USDA Disaster Assistance Tools & Programs for Producers.*”
 - + “*Whole Farm Revenue Protection for Producers on the Hualapai.*”
 - + “*Livestock Recordkeeping: Workbooks and other Tools.*”
 - + “*Livestock Risk Protection: Marketing Feeder Calves.*”
 - + “*Managing for Disasters and USDA Program Utilized by the Hualapai Nation.*”

- Beginning Farmer Presentations, Benson, AZ, April 1, 2022.
 - + *“Goals and Objectives of BFR Project.”*
 - + *“Harrold Farm Tour”* (with J. Sherman)
- Beginning Farmer Presentation, *“Keys to Successful Specialty Crop Farms Across Arizona.”* Florence AZ, April 5, 2022.
- Beginning Farmer Presentation, *“Economic Considerations for an Urban Farm.”* Mesa AZ, April 6, 2022.
- RMA Presentations, Clarkdale, AZ, April 26, 2022.
 - + *“Developing a Business Plan and Record Keeping Tools.”*
 - + *“Microloan Application Forms and Strategies for Beginning Farmers.”*
 - + *“POS Software and WFRP.”*
 - + *Clear Creek Vineyards Farm Tour*
- Beginning Farmer Presentations, Benson, AZ, May 6, 2022.
 - + *“Record Keeping Tools and Developing a Business Plan.”*
 - + *“SouthWinds Farm Tour”* (with J. Sherman)
- RMA Presentations, Willcox, AZ, May 20, 2022.
 - + *“Koehn Certified Organic Farms Tour.”* (with J. Sherman)
 - + *“POS Software and Whole Farm Revenue Protection.”*
 - + *“Tour of Riverview Dairy”* (with A. Wright)
- Beginning Farmer Presentation, *“Viticulture production in AZ and Soil Health Study on Southwest Vineyards Farm.”* Clarkdale AZ, May 24, 2022.
- RMA Recorded Webinar, *“POS Utilization by Producers.”* Q&A with Amy McCann (Local Food Market Place) and Brian Coppom (CO Dept. of Ag.), May 26, 2022.
- RMA Recorded Webinar, *“How Experts from Farm Credit and RMA relate POS to WFRP.”* Q&A with Austin Weaver and Griffin Schnitzler, August 8, 2022.
- Beginning Farmer Presentation, *“Value-Based Marketing Protocols for Calves.”* Bread Springs, NM, Sept. 21, 2022.
- Beginning Farmer Presentations, Tuba City, AZ, Sept. 22, 2022.
 - + *“Value-Based Marketing Programs”*
 - + *“Record Keeping Resources for Livestock”*
- Presentations for 2501 Outreach & Assistance for Socially Disadvantaged and Veteran Producers Project, Tuba City, AZ, September 26, 2022.
 - + *“Impacts of Drought on Beef Cow Numbers and Market Outlook.”*
 - + *“USDA Programs and Tools Utilized by Western Navajo Nation.”*
 - + *“Agritourism in Northern AZ as a Drought Mitigation Strategy.”*
 - + *“Tour of Rose Farms”*
- Presentations for 2501 Outreach & Assistance for Socially Disadvantaged and Veteran Producers, Kirtland, NM, September 27, 2022.
 - + *“Impacts of Drought on Beef Cow Numbers and Market Outlook.”*
 - + *“USDA Programs and Tools Utilized by North Eastern Navajo Nation.”*
 - + *“Agritourism as a Drought Mitigation Strategy.”*
- Presentations for 2501 Outreach & Assistance for Socially Disadvantaged and Veteran Producers, Gallup, NM, September 28, 2022.
 - + *“Impacts of Drought on Beef Cow Numbers and Market Outlook.”*
 - + *“USDA Programs and Tools Utilized by Eastern Navajo Nation.”*
 - + *“Agritourism as a Drought Mitigation Strategy.”*

- RMA Recorded Webinar, “*Utilizing POS Systems to Manage and Market Numerous Products.*” Q&A with producers of Shanti Rade and Brittany Anderson, Oct. 17, 2022.
- Presentations for 2501 Outreach & Assistance for Socially Disadvantaged and Veteran Producers, San Carlos, AZ, October 19, 2022.
 - + “*Impacts of Drought on Beef Cow Numbers, Market Outlook, and Regenerative Grazing.*”
 - + “*USDA Programs and Tools Utilized by San Carlos Apache.*”
 - + “*Agritourism in Central AZ as a Drought Mitigation Strategy.*”
- Beginning Farmer Presentations, Snowflake, AZ, Oct. 27, 2022.
 - + “*Resources for USDA programs targeting Beginning Farmers.*”
 - + “*Organic Certification Standards and Marketing Considerations.*”
- Beginning Farmer Presentations, Snowflake, AZ, Nov. 11, 2022.
 - + “*Developing and Writing a Business Plan, Tools and Objectives.*”
 - + “*Record Keeping Tools and Loan Applications.*”
- Beginning Farmer Presentations, Snowflake, AZ, December 8, 2022.
 - + “*Microloan Assignment and FSA Loans.*”
 - + “*Agritourism Opportunities and Challenges.*”
 - + “*Point of Sale Software and Whole Farm Revenue Protection.*”
- RMA Recorded Webinar, “*Producer Views on integration of WFRP and POS Systems.*” Q&A with producers of Roy Pfaltzgraph, Nic Koontz, and Brad McIntyre, Dec. 19, 2022.

2021

- RMA presentation, “*Market Outlook and Policy Considerations for AZ Field Crops.*” online with ICM team, January 27, 2021.
- Beginning Farmer Presentation, “*Alfalfa’s Increasing Importance to AZ’s Agriculture.*” Florence, AZ, February 10, 2021.
- Secured speakers and assisted in hosting online webinar of “*Western Water Systems, Ag In Uncertain Times,*” Western Extension Committee, February 3, 2021. Available at <https://www.farmmanagement.org/aginuncertaintimesenglish/2021/02/03/february-3rd-2021-webinar-recordings-western-water-systems-update/>
- Beginning Farmer Presentations, Florence, AZ, March 17, 2021.
 - + “*Business Canvas Model, Business Planning, & SWOT Tools.*”
 - + “*USDA Programs for Beginning Farmers and Ranchers.*”
- Risk Management Presentation, “*Program Evaluation Tools for Beginning Farmers and Rancher Trainings, WTA vs. WTP.*” Virtual ERME Conference, March 24, 2021.
- Risk Management Presentation, “*Impacts of State Derived Alfalfa Exports on their Prices.*” Virtual Alfalfa Forage Workshop, April 8, 2021.
- Beginning Farmer Presentations, Florence, AZ, April 14, 2021.
 - + “*FSA Microloans and Loan Options for Beginning Farmers and Ranchers.*”
 - + “*LocalFresh.Info, Connecting Consumers with Local Producers.*”
- Presentation to Gila River Farms, “*Central AZ Field Crop Trends and High Value Agriculture Options,*” Sacaton, AZ, May 6, 2021.

- Secured speaker and assisted in hosting online webinar of “*Climate Risk for U.S. Agriculture, Ag In Uncertain Times*,” Western Extension Committee, May 12, 2021. Available at <https://www.farmmanagement.org/aginuncertaintimesenglish/2021/05/12/may-12th-2021-webinar-recordings-climate-risk-for-u-s-agriculture/>
- Presentation/Report at TAC Committee, “*Livestock Monitor and Outlook Activities*,” virtual meeting of LMIC, May 19, 2021.
- Presentation to Gila River Farms, “*SWOT Analysis and Growth Strategies for Gila River Farms*,” Sacaton, AZ, May 27, 2021.
- Poster presentation for AACDs, “*Beginning Rancher Education and Conservation with AACDs and UA*.” Litchfield Park, AZ, August 10, 2021.
- Risk Management presentations, Tuba City, AZ, August 12, 2021.
 - + “*Navigating USDA Disaster Assistance Programs*.”
 - + “*Whole Farm Revenue Protection for Coconino Cnty. Navajo Nation Producers*.”
 - + “*Utilized and Underutilized USDA Programs on the Navajo Nation, LFP, PRF-RI, and WFRP, Coconino & Navajo Counties*.”
 - + “*Livestock Risk Protection for Feeder and Lambs, Assessing Recent Changes*.”
- Beginning Rancher statewide conference organized/hosted and presentation with Bopper Cannon, “*Value-Added Protocols for Marketing Calves*.” Mahan Park, AZ, September 18, 2021.
- Presentation at Fostering Food Security in the Drylands, “*Trends in Arizona’s Semiarid Agriculture Portfolio*,” jointly held online with Qatar Dept. of Agriculture and University of Arizona, September 22, 2021.
- Risk Management presentations, Navajo Nation, Kirtland, NM, October 1, 2021.
 - + “*Navigating USDA Disaster Assistance Programs*.”
 - + “*Whole Farm Revenue Protection for Navajo Nation Producers, San Juan Cnty*.”
 - + “*Livestock Record Keeping Tools, 3-Ring Binders to Online Programs*.”
 - + “*Utilized and Underutilized USDA Programs on the Navajo Nation – LFP, PRF-RI, and WFRP, Apache & San Juan Counties*.”
 - + “*Livestock Risk Protection for Feeder and Lambs, Assessing Recent Changes*.”
- Urban Ag Beginning Farmer webinar presentation, “*Recordkeeping*.” October 25, 2021. Available online at [https://extension.arizona.edu/urban-agbeginner-farmer-program-maricopa-county -- Recordkeeping](https://extension.arizona.edu/urban-agbeginner-farmer-program-maricopa-county--Recordkeeping).
- Beginning Farmer Presentations, Florence, AZ, Nov. 2, 2021.
 - + “*Value Added Producer Grants*.”
 - + “*Feasibility Studies on Small-Scale Meat Processing Plants*.”
- Beginning Farmer Presentation, “*Recordkeeping Workbooks and Tools – Crops and Livestock*.” Florence, AZ, December 7, 2021.
- Western Extension Committee annual meeting, “*Point of Sale tools for assisting with Whole Farm Crop Insurance*” and organization of *Climate Change and Water Scarcity in the West* panel, San Diego, CA, December 15-17, 2021.

2020

- Presentation to Beginning Farmers, “*Basics of Developing a Business Plan*.” Florence, AZ, January 7, 2020.
- Presentation to Beginning Farmers, “*Developing and Growing Beginning Small Farms in SE AZ*.” Benson, AZ, January 10, 2020.

- RMA presentations, *“Farm Policy, Trade, Market and Risk Considerations for Alfalfa, Cotton, and Dairy.”*
 - + Casa Grande, AZ, January 14, 2020.
 - + Marana, AZ, January 15, 2020.
- Presentation to Prescott Farmers Market, *“Prescott Consumer Study Overview and LocalFresh.Info”* Prescott, AZ, January 21, 2020.
- RMA presentation at SWIAA, *“Trade Impacts on Agriculture and Risk Management Tools for Alfalfa and Dairy.”* Laughlin, NV, January 22, 2020.
- Beginning Farmer & Rancher statewide conference and presentations at the beginning of the Southwest Indian Agricultural Association Conference, *“Beginning Farmer and Rancher Grant, Challenges and Solutions to Operating a Small-Scale Beef Processing Plant, Tools and Ingredients to Produce and Market Local Fresh Produce, and Legal Liabilities with Horses,”* Laughlin, NV, January 23, 2020.
- Poster presentation at SWIAA, *“Beginning Farmer & Rancher Activities and RMA Livestock Insurance Tools.”* Laughlin, NV, January 22-23, 2020.
- Presentation at Southwest Ag Summit, Latino Farm Symposium, *“Finance and Assistance Programs for Beginning, Limited-Resource, and Socially Disadvantaged Producers.”* Yuma, AZ, February 20, 2019.
- RMA presentation, *“Considerations for Starting a Small-Scale Beef Processing Facility.”* Tucson, AZ, January 28, 2020.
- Beginning Farmer Presentation, *“Livestock Trends in AZ and Beginning Rancher Issues/Opportunities for NE AZ.”* Hon Dah, AZ, February 4, 2020.
- RMA presentations at SE AZ Farm and Ranch Trade Show, Willcox, AZ, February 12, 2020.
 - + *Crop Economic Trends for AZ and SE Arizona.*
 - + *Understanding Revisions to USDA/RMA’s PRF-Rainfall Index Insurance.*
 - + *Is Whole Farm Revenue Protection Right for Your Operation.*
- RMA presentation, *“Economic Trends and Risk Management Issues for SE Arizona.”* Safford, AZ, February 13, 2020.
- RMA presentation to Navajo Ranchers, *“Market Outlook and Beef Quality Issues.”* Tucson, AZ, February 25, 2020.
- Presentations as part of the Range Livestock Nutrition working group, *“Global Market Trends and Risk Management Tools for Cow-Calf Producers.”*
 - + Benson, AZ, March 9, 2020
 - + Prescott, AZ, March 10, 2020
 - + Holbrook, AZ, March 11, 2020
- RMA presentations for AZ dairy producers, received approval from USDA/RMA for online delivery to close out the grant on these topics.
 - + USDA/RMA Dairy Revenue Protection
(https://www.youtube.com/watch?v=Eg3ncUxIB_w)
 - + USDA/RMA Livestock Gross Margin
<https://www.youtube.com/watch?v=ZJZsKmei00A>
 - + USDA/FSA Dairy Margin Coverage
<https://www.youtube.com/watch?v=JfZOPVJH6Ro>
- Beginning Farmer presentation, *“Basic Planning and Record Keeping Tools for Beginning Farmers.”* Florence, AZ, November 11, 2020.

- Presentation to Small Farm Colloquia, “*US/AZ Small Farm Production, Marketing, and Value Added Characteristics.*” available at, <https://extension.arizona.edu/events/2020-07-20/small-scale-farmers-colloquium-2020>
- RMA Presentation for Dairy Producers in the West as part of Ag In Uncertain Times webinar series and group, “*USDA/FSA Dairy Margin Coverage Program.*” <https://www.farmmanagement.org/aginuncertaintimesenglish/2020/11/23/november-23rd-2020-webinar-recordings-dairy-risk-management/>

2019

- RMA presentation, “*Economic Risks and Costs of Trich in AZ Beef Herds.*” Marana, AZ, January 10, 2019.
- RMA presentation, “*Ag Outlook and Farm Bill Considerations for Central AZ.*” Buckeye, AZ, January 16, 2019.
- Beginning Farmer & Rancher statewide conference and presentations at the beginning of the Southwest Indian Agricultural Association Conference, “*Beginning Farmer and Rancher Grant and Objectives, Soil Health Considerations for Ranching, and Navajo Cultural Values and Issues for Horses,*” Laughlin, NV, January 21, 2019.
- Poster presentation at SWIAA, “*Beginning Farmer & Rancher Activities and RMA Livestock Insurance Tools.*” Laughlin, NV, January 22-24, 2019.
- Presentation to Beginning Farmers, “*Business Planning Tools and Resources for Beginning Farmers.*” Florence, AZ, February 2, 2019.
- Presentation at Southwest Ag Summit, Latino Farm Symposium, “*Finance and Assistance Programs for Beginning, Limited-Resource, and Socially Disadvantaged Producers.*” Yuma, AZ, February 20, 2019.
- ALVSCE Poster Forum with Elena Chin and Dr. Aradhyula, “*A Discrete Choice and Revealed Preference Analysis of Food Shopping Attributes for Yavapai County Consumers.*” Tucson, AZ, March 22, 2019.
- RMA presentation, “*Overview of USDA Programs for Producers and Record Keeping Tools.*” Florence, AZ, April 4, 2019.
- RMA presentation, “*Alfalfa’s Trade and Market Situation.*” Maricopa, AZ, April 10, 2019.
- Beginning Rancher presentations, “*Overview of Developing Opportunities and Growing Businesses of Limited-Resource and Native American Beginning Ranchers.*”
 - + San Carlos, AZ, April 30, 2019.
 - + Stockton Pass, AZ, May 5, 2019.
 - + Polacca, AZ, May 14, 2019.
- Presentation to LMIC Technical Advisory Committee, “*Trade Impacts on Alfalfa in the West.*” Denver, CO, May 22, 2019.
- RMA poster presentation at Department of Navajo Nation Summit with Elena Chin, “*2019 Whole Farm Revenue Protection for Tribal Ranches.*” Twin Arrows, AZ, June 19-21, 2019.
- Poster presentation at International Symposium on Vegetable Grafting with R. Gupta and C. Kubota, “*Cost estimates for grafted, non-grafted, and direct seeded cantaloupes.*” Charlotte, NC, July 14-18, 2019

- RMA presentations to SE tree nut producers, “*Ag Census Trends for Tree Nuts, RMA Programs for SE AZ Tree Nuts, and Whole Farm Revenue Protection.*” Willcox, AZ, July 12, 2019.
- RMA presentations to central AZ dairy producers, “*Alfalfa Market Trends and Recent Changes to USDA Dairy Programs.*”
 - + Buckeye, AZ, July 29, 2019.
 - + Stanfield, AZ, August 1, 2019.
- Poster presentations at Annual Extension Conference, “*LocalFresh.Info – connecting consumers to local producers and market managers*” and “*A Discrete Choice and Revealed Preference Analysis of Food Shopping Attributes for Yavapai County Consumers,*” Tucson, AZ, August 6-7, 2019.
- Beginning Farmer presentations, “*Prescott Local Food Center Study, LocalFresh.Info, and Beginning Farmer grant activities for Prescott.*” Prescott, AZ, August 8, 2019.
- Beginning Rancher presentation, “*Vision, Mission, and Cash Flow Considerations for Beginning Ranchers.*” Continental, AZ, August 9, 2019.
- Beginning Rancher presentation, “*Developing Opportunities and Growing Businesses of Limited-Resource and Native American Beginning Ranchers.*” Payson, AZ, August 27, 2019.
- Beginning Farmer presentation, “*Selected Beginning Farmer Graduate Stories.*” Florence, AZ, September 3, 2019.
- Beginning Rancher statewide conference organized and presentation, “*Value-Added Protocols for Marketing Calves.*” Rimrock, AZ, October 19, 2019.
- Beginning Rancher presentations, “*Herd Health/Nutrition and Range Management: Fertility vs. Numbers.*”
 - + Tsaille, AZ, October 22, 2019
 - + Kykotsmovi, AZ, October 23, 2019
 - + Tuba City, AZ, October 24, 2019
- Beginning Farmer presentation, “*Planning Your Farm Operation: Costs and Checklists for Beginning Farmers.*” Florence, AZ, November 5, 2019.
- Lunch panelist, “*Justice for Humans, Animals, and the Environment.*” College of Law, Tucson, AZ, November 8, 2019.
- RMA presentation, “*Economics of Niche Beef Direct Marketing.*” San Xavier, AZ, November 9, 2019.
- Beginning Rancher presentation, “*Business Planning Tools and Issues for Beginning Ranchers.*” Douglas, AZ, November 20, 2019.
- Beginning Farmer presentation, “*Planning Your Farm Operation: Costs and Checklists for Beginning Farmers.*” Benson, AZ, December 13, 2019.

2018

- RMA presentations, “*Outlook and Risk Management Considerations for AZ’s Forage and Cotton.*”
 - + Buckeye, AZ, January 10, 2018
 - + Casa Grande, AZ, January 11, 2018
 - + Marana, AZ, January 16, 2018

- RMA presentation to SE crop producers, *“Risk Management of Pistachios and Forage.”* Southeast Ag Days, Willcox, AZ, February 7, 2018.
- Presentation to SE AZ crop producers, *“Producer Decisions for Seed Cotton becoming a Title I Commodity as part of the 2018 Bipartisan Budget Act.”* Safford, AZ, February 16, 2018.
- Presentation to Southern AZ livestock producers, *“U.S. Livestock Marketing and Global Issues with Highlights on Brazil and China.”* Tucson, AZ, February 27, 2018.
- Producer webinar presentation on *“Economic Viability of Grafting Cucurbits in the West,”* workshop held online as part of Specialty Crops grafting grant, March 16, 2018.
- RMA presentation to Southern AZ specialty crop producers, *“Risk Management Issues for Grapes and RMA Crop Insurance Options,”* Benson, AZ, March 23, 2018.
- RMA presentation to Central AZ forage producers, *“Determinants of Alfalfa Prices and Risk Management Considerations,”* Maricopa Agr. Center, AZ, March 28, 2018.
- Presentation to Northern AZ livestock producers, *“Economics of Culling Decisions,”* Camp Verde, AZ, May 8, 2018.
- Presentation to Central AZ livestock producers and AZ/NM FS personnel, *“Economics of Forced Cow Culling during Drought,”* Fountain Hills, AZ, May 11, 2018.
- Presentation to White Mountain Apache tribal members, *“Evaluating Alternative Restocking Paths after Drought,”* Whiteriver, AZ, May 11, 2018.
- Presentation to Northern AZ specialty crop producers, *“Hoop House Experiences from the Beginning Farmer Project,”* with U. Schuch, Star School, Leupp/Flagstaff AZ, June 1–2, 2018.
- RMA presentation to LMIC/TAC members, *“How AZ Utilizes the Livestock Monitor, LMIC Weekly, In the Cattle Markets, and LMIC Data,”* Des Moines, IA, June 4, 2018.
- Presentation at Western Extension Committee meeting, *“2018 Farm Bill Considerations,”* Anchorage, AK, June 24, 2018.
- RMA presentation to Southern AZ tree nut producers, *“RMA Insurance Tools: Pistachios, Pecan Revenue, and Pecan Tree Products,”* Elfrida, AZ, July 17, 2018.
- RMA presentation to San Carlos Apache crop producers, *“Hoop House Technology and Product Attributes Demanded by Farmers Market Consumers,”* San Carlos, AZ, August 4, 2018.
- Poster presentation at Annual Extension Conference, *“Food Shopping Environment and Attributes Desired: Case for Yavapai County Consumers,”* with E. Chin and S. Aradhyula, Tucson, AZ, August 7–8, 2018.
- RMA presentation to Central AZ specialty crop producers, *“USDA/RMA Resources to Protect Your Farm Business,”* Florence, AZ, August 24, 2018.
- RMA presentations to specialty crop producers, *“LocalFresh.Info.”*
 - + Florence, AZ, August 24, 2018.
 - + Prescott, AZ, August 27, 2018.
- RMA presentations to specialty crop producers, *“Local Food Center vs. Farmers Market Shopping Environments: Marginal Propensity to Consume Results.”* with E. Chin.
 - + Florence, AZ, August 24, 2018.

- + Prescott, AZ, August 27, 2018.
- RMA presentation to Northern AZ specialty crop producers, “*USDA/RMA Resources for Grapes and Non-Insured Yavapai County Crops*,” Prescott, AZ, August 27, 2018.
- RMA presentations to livestock producers, “*Livestock Market Update*” and “*Livestock Recordkeeping Tools*.” – same presentation at each location.
 - + Benson, AZ, September 7, 2018.
 - + Santa Rosa, AZ, September 11, 2018.
 - + San Carlos, AZ, September 14, 2018.
- RMA presentations to livestock producers, “*USDA/RMA’s Pasture Rangeland Forage, Rainfall Index, and Whole Farm Revenue Programs for Your Grid*,” and “*Spreadsheet Tools to Evaluate Drought Management and Restocking Alternatives*.” – unique numbers and slides for each location.
 - + Benson, AZ, September 7, 2018.
 - + Santa Rosa, AZ, September 11, 2018.
 - + San Carlos, AZ, September 14, 2018.
- Mandatory national beginning farmer and rancher conference for PIs, “*Developing Opportunities and Growing Businesses of Limited-Resource and Native American Beginning Farmers and Ranchers in Arizona*.” Albuquerque, NM, September 24–26, 2018.
- Beginning Farmer workshop in Central AZ, arranged for keynote speaker on “*Building Soils in an Arid Climate*,” and gave presentation on “*Proposed Curriculum for Specialty Crop Producers*.” Florence, AZ, December 11, 2018.

2017

- RMA presentation at Southwest Indian Agricultural Association Conference, “*Recordkeeping, Whole Farm Revenue and Rainfall Index Insurance*.” Laughlin, NV, January 18, 2017.
- Poster presentation at SWIAA, “*RMA Livestock Insurance Tools*.” Laughlin, NV, January 18–19, 2017.
- Beginning Farmer presentations, “*Growing in High Tunnels and Transplanting to the Field: Economic Considerations*.”
 - + Florence, AZ, February 7, 2017
 - + Flagstaff, AZ, February 8, 2016
- Beginning Farmer presentation, “*Recordkeeping Tools and Financing Alternatives for Beginning Farmers*.” Flagstaff, AZ, February 22, 2017.
- Southwest Ag Summit presentation, “*RMA/USDA Insurance Tools and Trends for AZ’s Cotton*.” Yuma, AZ, February 23, 2017.
- RMA presentation, “*Livestock Market Outlook and USDA/RMA Risk Management Tools for San Carlos Tribe*.” San Carlos, AZ, February 27, 2016.
- Beginning Farmer presentation, “*Certification and Labeling Considerations and Organic Certification Issues*.” Flagstaff, AZ, March 8, 2017.
- Range Livestock Nutrition Workshops, “*International Livestock Markets and Paying for Supplement*.”
 - + Safford, AZ, March 14, 2017
 - + Holbrook, AZ, March 15, 2017
 - + Kingman, AZ, March 16, 2017

- Beginning Farmer presentation, “*Market Analyses and Assessing Demographics of Direct Markets for Flagstaff.*” Flagstaff, AZ, March 22, 2017.
- Beginning Farmer workshop organized, “*Arizona Domestic Wells Water Workshop.*” Benson, AZ, April 12, 2017.
- Beginning Farmer workshop organized, “*Small Animal Livestock Production Considerations.*” Benson, AZ, April 26, 2017.
- Beginning Farmer presentation, “*Developing Market Goals and Assessing Benson Demographics for Direct Marketing.*” Benson, AZ, May 10, 2017.
- Beginning Farmer workshop organized, “*Food Safety and FSMA issues for Direct Marketers.*” Flagstaff, AZ, June 20, 2017.
- Risk Management Presentations and half-day workshops, “*International Trade Situation and Market for Beef,*” “*Strategies to Manage for Drought and Market Risks,*” and “*Hands-on Spreadsheet Tools for Evaluation the Profitability of Supplement, Other Inputs and Herd Mix with your laptop.*”
 - + Clifton, AZ, July 5, 2017
 - + Douglas, AZ, August 16, 2017
 - + Flagstaff, AZ, August 22, 2017
 - + Kingman, AZ, August 23, 2017
 - + Globe, AZ, September 22, 2017
 - + Sonoita, AZ, October 4, 2017
- Beginning Farmer presentation, “*Assessing Production and Marketing Issues in Pinal County.*” Winkleman, Florence, and Randolph, AZ, October 18, 2017.
- Prescott Farmers Market presentation, “*Concept of a Local Food Center.*” Prescott, AZ, October 21, 2017.
- Beginning Farmer presentation, “*Small Plot Farming Issues at MAC.*” Maricopa, AZ, October 25, 2017.
- The Future of AZ Agriculture 10 Years and Beyond: A Panel Discussion, co-organized with Joel Cuello and presented on, “*Trends in AZ’s Agriculture.*” Tucson, AZ, November 3, 2017.
- RMA presentation, “*Livestock Risk Management Programs: PRF-Rainfall Index, WFRP, and LRP.*” Twin Arrows, AZ, November 15, 2017.
- RMA poster, “*Market Trends and RMA Programs for Ranches and Small Farms.*” Twin Arrows, AZ, November 15–17, 2017.
- RMA presentation, “*Whole Farm Revenue Protection.*” Paulden, AZ, November 27, 2017.
- Beginning Farmer presentation, “*Assessing Behavioral Changes from the Beginning Farmer Project.*” Florence, AZ, November 29, 2017.
- Beginning Farmer presentation, “*Trends with Organic Certification and Direct Marketers in AZ.*” Benson, AZ, December 13, 2017.

2016

- RMA presentation at Southwest Indian Agricultural Association Conference, “*Beef Price Outlook and Managing Livestock Market and Financial Risks.*” Parker, AZ, January 20, 2016.
- Poster presentation at SWIAA, “*RMA Livestock Insurance Tools.*” Parker, AZ, January 19–21, 2016.

- RMA presentation, *“Outlook and Crop Insurance Considerations with Limited Water.”*
 - + Marana, AZ, January 26, 2016
 - + Buckeye, AZ, January 27, 2016
 - + Casa Grande, AZ, January 28, 2016
- Beginning Farmer presentations, *“Overview of BF Program, Establishing Goals, and Intro to Developing a Business Plan.”*
 - + Benson, AZ, January 27, 2016
 - + Benson, AZ, October 5, 2016
- Beginning Farmer presentations, *“Market Considerations for Hoop House Production and Knowledge Assessment Evaluation.”* Florence, AZ, February 3, 2016.
- Beginning Farmer presentations, *“Recordkeeping and Financials for Small-Scale Farming.”*
 - + Benson, AZ, February 10, 2016
 - + Benson, AZ, October 19, 2016
- Beginning Farmer presentations, *“Certification and Labeling Issues and Organic Marketing Considerations from the 2012 Ag Census.”*
 - + Benson, AZ, February 24, 2016
 - + Benson, AZ, November 2, 2016
- Beginning Farmer presentations, *“Small Animal Considerations for Beginning Farmers.”* Florence, AZ, March, 1, 2016.
- RMA presentation, *“Marketing Options for Cattle: Livestock Risk Protection vs. Futures and Options.”* Safford, AZ, March 2, 2016.
- Beginning Farmer presentations, *“Market Analyses and Enterprise Planning/Budgeting.”*
 - + Benson, AZ, March 9, 2016
 - + Benson, AZ, November 30, 2016
- Beginning Farmer tour, *“Cost and Labor Issues Associated with HH Production and LocalFresh.info.”* Campus Ag. Center, Tucson, AZ, March 16, 2016.
- Beginning Farmer presentation, *“Financing, Microloans, and Grant Opportunities.”* Benson, AZ, March 23, 2016.
- RMA presentations, *“Rainfall Index Insurance for Arizona Rangelands.”*
 - + Twin Arrows, AZ, March 12, 2016
 - + Willcox, AZ, March 13, 2016
- Beginning Farmer presentation arranged, *“Mushroom Production in Arizona.”* Dr. Barry Pryor, Florence, AZ, April 6, 2016.
- Beginning Farmer presentation of *“Hoop House Construction and Production/Market Considerations for the Western Navajo Nation.”* Tonalea Day School, April 11, 2016.
- Beginning Farmer presentation arranged, *“Arizona’s Water Right Laws for Wells.”* Janick Artiola, Florence, AZ, May 4, 2016.
- Beginning Farmer presentation arranged, *“Solar Electricity Generation for Small Farms.”* Dr. Edward Franklin, Florence, AZ, June 7, 2016.
- RMA presentations, *“RMA Programs for Colorado River Agriculture.”*
 - + Mesquite, NV, July 25, 2016
 - + Parker, AZ, August 31, 2016

- Beginning Farmer presentation arranged, *“Integrated Pest Management for Small Farms.”* Dr. Ayman Mostafa, Florence, AZ, September 6, 2016.
- Beginning Farmer presentation of *“Hoop House Construction and Production/Market Considerations for Central Arizona.”* Florence, AZ, September, 29, 2016.
- Beginning Farmer presentation of *“Local Foods and using LocalFresh.info to Connect with Local Consumers.”* Florence, AZ, October, 4, 2016.
- RMA presentation, *“RMA Program Update for Forage and Cotton Production.”* Parker, AZ, October 19, 2016.
- Beginning Farmer presentation of *“Using LocalFresh.info to Connect with Consumers.”* Florence, AZ, October, 4, 2016.
- Beginning Farmer presentation arranged, *“Introduction to Aquaponic Production and Marketing Issues in Central Arizona.”* Dr. Jason Licamele, Florence, AZ, November 1, 2016.

2015

- Tour for WEC group, *“Commercial Organic Vegetable Production and Composting.”* Buckeye, AZ, January 5, 2015.
- Presentation for AMS grant, *“LocalFresh.info and Assessing Product Attributes for Direct Farm Markets.”* Sierra Vista, AZ, January 13, 2015.
- RMA presentation at Southwest Indian Agricultural Association Conference, *“Rangeland Vegetative Index, Livestock Risk Protection, and Farm Service Agency Insurance Products.”* San Xavier, AZ, January 20, 2015.
- FSA presentations, *“2014 Farm Bill Update and Utilizing the Online Farm Bill Decision Tools.”*
 - + Casa Grande, AZ, January 28, 2015
 - + Maricopa, AZ, February 18, 2015
- RMA presentation, *“Outlook for AZ Crop Commodities and 2014 Farm Bill Update.”*
 - + Buckeye, AZ, February 4, 2015
 - + Marana, AZ, February 16, 2015
 - + Casa Grande, AZ, February 17, 2015
 - + Safford, AZ, March 4, 2015
- Beginning Farmer presentations of *“Hoop House construction and assessing market size and opportunities for the Western Navajo Nation.”*
 - + Coal Mine (S. of Tuba City), AZ, March 12, 2015
 - + Tonalea (E. of Tuba City), AZ, March 12, 2015
- RMA presentation, *“RMA Insurance Products for Yuma and Alfalfa Exports.”* Yuma, AZ, April 1, 2015.
- Beginning Farmer presentations, *“Overview of BF Program and Economics of HH Production.”*
 - + Tucson, AZ, April 8, 2015
 - + Safford, AZ, April 9, 2015
 - + Florence, AZ, April 14, 2015
- Beginning Farmer presentations, *“Securing Grants, Financing, and Record Keeping Tools.”*
 - + Tucson, AZ, April 22, 2015
 - + Safford, AZ, April 23, 2015

- + Florence, AZ, May 5, 2015
- Beginning Farmer presentations, *“Assessing Market Size and Food Safety Considerations.”*
 - + Tucson, AZ, May 6, 2015
 - + Safford, AZ, May 7, 2015
- RMA computer workshop and presentation to Annie’s Project participants, *“Vegetative Index Rangeland Insurance, Livestock Risk Protection, and Spreadsheet Tools for Ranch Profitability.”* Flagstaff, AZ, May 15, 2015.
- Beginning Farmer presentations, *“Certification and Labeling Considerations for Small Farm Producers.”*
 - + Tucson, AZ, May 20, 2015
 - + Safford, AZ, May 21, 2015
- Beginning Farmer presentation, *“Developing a Business Plan and Understanding Financial Statements.”* Florence, AZ, June 2, 2015.
- RMA presentation at Southwest Indian Livestock Days, *“Vegetative Index Rangeland Insurance, FSA Livestock Programs, and Beef Situation and Outlook.”* Twin Arrows, AZ, June 16, 2015.
- Presentation for AMS grant, *“Certification and Labeling and LocalFresh.info.”* Show Low, AZ, July 15, 2015.
- Poster presentation at the Arizona Cattle Growers Annual Conference, *“RMA Livestock Insurance Tools and AZ Cost Estimates for Cow-Calf Operations.”* Tucson, AZ, July 22–23, 2015.
- Computer workshop and presentation, *“Dissecting FSA and RMA Livestock Programs, Cost of Production Benchmarking, and Spreadsheet Tools for Ranch Profitability.”* Willcox, AZ, August 19, 2015.
- Beginning Farmer presentation, *“Evaluating Production Constraints and Market Opportunities with Organics.”* Florence, AZ, September 8, 2015.
- Mandatory national beginning farmer conference for PIs, *“Growing the Management Skills of Native Americans and Limited-Resource Beginning Farmers in the Southwest.”* Reno, NV, September 21–23, 2015.
- Presentation to AZ and NM ranchers, *“Evaluating Production Risks and Economic Costs within Wolf Country.”* Willcox, AZ, October 1, 2015.
- Testimony provided to U.S. Small Business Administration, Regions VI and IX Small Business Owners and Business Leaders, *“Economic Wolf Linkages: Visual, Indirect, and Ripple Effects.”* Provided via conference link among participants in Washington D.C., AZ, and NM, October 14, 2015.
- Beginning Farmer presentation, *“Certification and Labeling Issues for Small Farm Producers.”* Florence, AZ, October 6, 2015.
- Beginning Farmer presentations, *“Developing a Business Plan, Goals, and SWOT Analyses.”*
 - + Prescott, AZ, October 26, 2015
 - + Tonalea, AZ, October 27, 2015
- Beginning Farmer presentation, *“Financial Analyses and Developing a Viable Market Size for Small Farms.”* Florence, AZ, November 3, 2015.
- Beginning Farmer presentations, *“Basics of Record Keeping, Goal Setting for Youth, and High Elevation HH Production Possibilities.”*

- + Prescott, AZ, November 9, 2015
- + Tonalea Middle School, November 10, 2015
- Beginning Farmer presentation, “*Enterprise and Financial Analyses for Small Scale Agriculture.*” Phoenix, AZ, November 16, 2015.
- Beginning Farmer presentation, “*Using AgPlan as a Business Planning Tool and Certification and Labeling Issues for Small Farms.*” Prescott, AZ, November 23, 2015.
- Beginning Farmer presentation, “*Careers in Agriculture and Basics of Food Labeling.*” Tonalea Middle School, November 24, 2015.
- Beginning Farmer tour, “*Growing for Direct Markets at a High Elevation.*” Whipstone Farms, December 15, 2015.

Grants and Contracts (Dr. Tronstad is **PI of grant/contract unless noted otherwise**).

Since 2001, Dr. Tronstad has been the PI of 42 grants that total over \$6.1 million and co-PI of 21 grants that total over \$3.8 million. Combined, he has been the PI or co-PI in securing over \$400K annually in external funding, going to The University of Arizona.

- Painted Desert Increasing Land, Capital, and Market Access Program for Native American Ranchers in Arizona, \$200,000, awarded from SWIAA/USDA/IRA, 2023/28.
- Overcoming Business and Land Challenges: Assisting Refugees, Indigenous Peoples, and other Limited Resource Beginning Producers in Arizona, \$750,000, awarded from USDA/NIFA, (with J. Munson (IRC), M. Eckstrom (Flagstaff Foodlink), R. Thayer (Spaces of Opportunity), A. Thompson, C. Hanley, A. Wright, J. Arias, and G. Gratop), 2023/26.
- Climate Change Risk Management, Western Center for Risk Management Education,
- Risk Management Education for Native American Livestock Producers in AZ and NM, \$107,658, awarded from USDA/RMA, (with E. Alden, G. Farrell, N. Notah, S. Sekaquaptewa, J. Arias, and A. Carlisle), 2022/23.
- Promoting Climate-Smart Agricultural Practices Among Underserved Small-Scale Farmers in Arizona using Farmer Participatory Research; \$923,509, (with J. Brown (PI) and R. Tronstad), USDA/NRCS, 2021/25.
- Enhancing USDA Program Participation and Economic Vitality Through Multi-Pronged Strategies in AZ and NM, USDA, OPPE; \$594,301, (with T. Rahman, I. Mpanga, J. Arias, A. Carlisle, G. Farrell, and N. Notah), 2021/25.
- Assessing Soil and Plant Health Response to Composted and Solarized Grape Pomace with Manure in Semi-Arid Soils, USDA, NIFA, Organic Transitions Program; \$575,000, (with J. Brown (PI), R. Tronstad, and J. Blankinship), 2021/25.
- Risk Management Education on POS Software, Record Keeping, WFRP, and Financial Planning, Western Center for Risk Management Education, \$100,000 (with I. Mpanga, S. Sands, P. Hatzenbuehler, and A. Westerhold), 2020/23.
- Feasibility Study: Jerky & Snack Sticks, Elevation Beef Co., \$8,125, 2021.
- Risk Management Education for Dairy and Beef Producers in AZ, NV, and NM, Western Center for Risk Management Education, \$99,990 (with D. Diaz, J. Grace, N. Notah, N. Brawley, A. Carlisle, J. Arias, E. Alden, S. Sekaquaptewa and G. Farrell) 2020/21.

- Impact of COVID-19 Pandemic on Fresh Tomato Shipments, Fresh Produce Association of America, \$9,953, (with D. Scheitrum (PI), E. Chin, D. Duval, G. Thompson, and S. Aradhyula) 2020.
- Farm Plan for Gila River Indian Community Farms, \$21,976, 2019/20.
- Marketing and Management Toolset for Localfresh.Info App. (Extension Strategic Program Initiative), \$26,175 (AREC's portion), (with M. Rahr and J. Schalaus), 2019/20
- San Xavier Cooperative Association Value-Added Meat Processing (subaward, SXCA/USDA), \$10,634, 2018/20
- Nalwoodi Denzhone Rural Business Development Program on San Carlos Apache Reservation (subaward, San Carlos / USDA/RD), \$2,500, (with Trent Teegerstrom (PI)), funded to Tribal Extension Programs, 2018/20
- West Navajo Nation Local Food Business Development Program (subaward, Star School / USDA / RD), \$2,250, (with Trent Teegerstrom (PI)), funded to Tribal Extension Programs, 2018/20
- Developing Opportunities and Growing Businesses of Limited-Resource and Native American Beginning Farmers and Ranchers in Arizona, \$600,000, awarded from USDA/NIFA, (with L. Austin, A. Brischke, A. Hall, E. Greene, J. Grace, J. Sherman, and A. Wright), 2018/24.
- Risk Management Education for Arizona's Livestock, Dairy, Forage, and Tree Nut Producers, \$99,990, awarded from USDA/RMA, (with D. Diaz, A. Hall, E. Greene, J. Sherman, and A. Wright), 2018/20.
- Feasibility of a Local Food Center near Prescott, \$24,243 awarded from USDA/RD, 2017/19.
- Risk Management Education for Arizona's Livestock, Tree Nut, Forage and Small Specialty Crop Producers, \$92,918, awarded from USDA/RMA, (with A. Wright and J. Sherman), 2017/18.
- Development of Grafting Technology to Improve Sustainability and Competitiveness of the U.S. Fruiting Vegetable Industry. UA is a sub-award on this five institution USDA/NIFA Multi-Disciplinary Specialty Crop Grant. Total grant is \$2.5 million and initial funding was for 4 years, subject to satisfactory progress after 2 years. (UA PIs) Chieri Kubota for 2016/17 and Young-Jun Son for 2017/18. (Dr. Frank Louws, PI for all 6 institutions) (USDA/NIFA Specialty Crops) (AREC's portion was \$83,618), 2016/20.
- Risk Management Education for Arizona Livestock Producers on Record Keeping, Rainfall Index and Whole Farm Insurance, \$80,225 awarded from USDA/RMA, (with T. Teegerstrom), 2016/17.
- Growing the Management Skills of Native American and Limited-Resource Beginning Farmers in the Southwest, \$750,000 awarded from USDA/NIFA, (with U. Schuch, T. Teegerstrom, M. Crain, S. Clixby, R. LeMaster, L. Austin, R. Freeman), 2014/17.
- Risk Management Education for Southwest Livestock, Forage, and Specialty Crop Producers on Record Keeping and Available Insurance Programs, \$89,133 awarded from USDA/RMA, (with T. Teegerstrom), 2015/16.
- 2014 Farm Bill Education for Arizona, \$20,811 awarded from USDA/FSA, with T. Teegerstrom (PI), 2014/15.

- Risk Management Education for Livestock Producers in the Southwest on Vegetative Index, AGR-Lite and Recordkeeping, \$81,487 awarded from USDA/RMA, (with T. Teegerstrom), 2014/15.
- Development of Grafting Technology to Improve Sustainability and Competitiveness of the U.S. Fruiting Vegetable Industry, UA is a sub-award on this six institution USDA/NIFA Multi-Disciplinary Specialty Crop Grant. Total grant of this renewal grant is around \$2 million and UA's portion is \$300,895. (with Dr. Chieri Kubota (PI for UA), and Dr. Son), 2014/16. (AREC's portion was \$31,581)
- Hedging Pecans: Yield, Quality, and Economic Implications, Arizona Specialty Crop Block Grant, (with J. Walworth (PI)), \$89,301, 2012/14.
- Expanding Markets and Market Coordination for Native American and Other Specialty Crop Producers Using LocalFresh.info, \$55,000 awarded from USDA/NIFA (with T. Teegerstrom), 2013/14.
- Enhancing Beginning Farmer Specialty Crop Management Skills and Opportunities in the Southwest, \$675,750 awarded from USDA/NIFA, (with U. Schuch, T. Teegerstrom, and J. Vosper), 2011/14.
- Risk Management Education on AGR-Lite, Vegetative Index, and Worker Safety Solutions for Arizona and California Specialty Crop and Limited Resource Producers, \$100,000 awarded from RMA's Community Outreach Partnership with T. Teegerstrom (PI) and U. Schuch, 2011/12.
- Development of Grafting Technologies to Improve Sustainability and Competitiveness of the U.S. Fruiting Vegetable Industry, UA is a sub-award on this five institution USDA/NIFA Multi-Disciplinary Specialty Crop Grant. Total grant is \$2.49 million and UA's portion is \$323,964. Dr. Chieri Kubota (PI for UA), Dr. Son and Dr. Tronstad, 2011/13.
- Specialty Crop Risk Management Tools and Strategies for Pests and Limited Irrigation Water, \$10,000 awarded from RMA Commodity Partnership Small Session, 2010/11.
- Arizona Pistachio Association Risk Management Education, \$10,000 awarded from RMA Commodity Partnership Small Session (with T. Teegerstrom), 2010/11.
- SURE, AGR-Lite, and LRP Risk Management Education for Arizona Livestock and Forage Producers, \$10,000 awarded from RMA Commodity Partnership Small Session (with S. Aradhyula), 2010/11.
- Integrating Organic Production with Subsurface Drip Irrigation: Meeting the Challenge, (with J. Walworth (PI)), \$56,536 awarded from Arizona Specialty Crop Block Grant, 2009/2011.
- LRP and AGR-Lite Education for Arizona Livestock and Forage Producers, \$20,000 awarded from RMA Commodity Partnership Small Session (with T. Teegerstrom), 2009/10.
- Arizona Pistachio Risk Management Education, \$20,000 awarded from RMA Commodity Partnership Small Session (with T. Teegerstrom), 2009/10.
- Risk Management Education in Southwest Indian Country on Recordkeeping, AGR-Lite, Alternative Energy, and Agri-tourism, \$130,000 awarded from USDA/RMA, (with T. Teegerstrom (PI), and T. Rahman), 2009/11.

- Record Keeping Tools and Hands-on Training to Enhance Profitability and Federal Program Participation of Southwest Native American Producers, \$300,000 awarded from USDA/NIFA, (with T. Teegerstrom), 2009/2012.
- LRP and AGR-Lite Education for Arizona Livestock and Forage Producers, \$20,000 awarded from USDA/RMA, (with T. Teegerstrom), 2009/2010.
- Arizona Pistachio Association Risk Management Education, \$20,000 awarded from USDA/RMA, (with T. Teegerstrom), 2009/2010.
- Risk Management Education in Southwest Indian Country on Recordkeeping, AGR-Lite, Alternative Energy, and Agri-tourism, \$130,000 awarded from USDA/RMA (with T. Teegerstrom, T. Rahman, and J. Dale), 2009/2010.
- Educating Southwest Indian Country Agriculture on Recordkeeping, AGR-Lite, Alternative Energy, and Agri-Tourism, \$75,000, awarded from USDA/RMA, (with T. Teegerstrom (PI), and T. Rahman), 2008/2009.
- Market-Based Instruments for the Optimal Control of Invasive Insect Species: *B. Tabaci* in Arizona, (with T. Richards (PI), P. Ellsworth, and S. Naranjo), \$47,000 to UA and \$23,000 to AREC, awarded from USDA/CSREES, 2008/2009.
- Livestock, Nursery, and Specialty Crop RME for the Southwest and Hawaii, \$100,000, awarded from USDA/RMA, (with T. Teegerstrom and U. Schuch), 2007/2008.
- Southwest Indian Country Rural Enhancement through Improved Recordkeeping, Agri-Tourism, AGR-Lite and other Programs, \$125,000, awarded from USDA/RMA, (with T. Teegerstrom (PI), and T. Rahman), 2007/2008.
- Use of grafted seedlings for methyl bromide transition in U.S. open-field fresh vegetable production, \$884,330 awarded from USDA Integrated Research, Education, and Extension Competitive Grants Program (~\$35,000 AREC) (with Chieri Kubota (PI), M. McClure, N. Burelle, M. Bausher, E. Roskopf, and D. Chellemi), 2007/2010.
- Developing and implementing field and landscape level reduced-risk management strategies for lygus in western cropping systems, \$407,000, USDA/NRI (~\$20,000 AREC), (with Peter Ellsworth (PI), P. Goodell, M. Parajulle, and S. Bundy), 2007/2010.
- Livestock, Nursery, and Specialty Crop RME for the Southwest and Hawaii, \$150,000, awarded from USDA/RMA, (with T. Teegerstrom and U. Schuch), 2006/2007.
- Enhancing Quality of Life in the Rural Southwest: Roles of AGR-Lite, Agri-Tourism, and Specialty Agri-Products, \$100,000, awarded from USDA/RMA Outreach, (with T. Teegerstrom (PI), and T. Rahman), 2006/2007.
- Record Keeping Training for Native American Livestock Producers, \$32,844, awarded from Western Center for Risk Management Education and CSREES/USDA, (with J. Hiller (PI) and T. Teegerstrom), 2005/2007.
- Southwest RME for Livestock, Forage and Specialty Crop Producers, \$149,999, awarded from USDA/RMA, (with T. Teegerstrom and U. Schuch), 2005/2006.
- Southwest Indian Country Risk Management Education on Agri-Tourism and Specialty Agri-Product Market Opportunities, \$120,000, awarded from USDA/RMA Outreach, (with T. Teegerstrom (PI), and T. Rahman), 2005/2006.

- Subsurface Drip Irrigation for Sustainable Production of Specialty Vegetable Crops in Arizona, \$64,000, initial award received in 2002 from ADA Specialty Crop Funds (with Tom Thompson (PI), Ed Martin, Kai Umeda, and Mary Olsen). A TRIF award for \$60,000 was received for 2005/07.
- North American Trade Suspension Agreements and Winter Tomato Supply Response, \$154,000 (with Satheesh Aradhyula (PI) and Gary Thompson), NRI Markets and Trade Grant, 2005/07.
- Managing Production Costs and Market Risks for Southwest Vegetable and Nursery Producers, \$36,995, awarded from Western Center for Risk Management Education and CSREES/USDA, (with T. Teegerstrom and U. Schuch), 2005/2006.
- Trade Adjustment Assistance Education for Alaska Salmon Fisherman, \$14,400, awarded from Western Center for Risk Management Education and CSREES/USDA, (with T. Teegerstrom (PI)), 2004/2005.
- Early Irrigation Termination of Cotton as a Drought Mitigation Strategy, \$66,535 received from a TRIF Water Sustainability Proposal, (with Jeff Silvertooth), 2004/06.
- Trade Adjustment Assistance Education for Arizona Shrimp Producers, \$9,660, awarded from Western Center for Risk Management Education and CSREES/USDA, (with T. Teegerstrom (PI) and K. Fitzsimmons), 2004/2005.
- Southwestern Computer Risk Management Training for RMA Priority Commodities, \$146,540 awarded from USDA/RMA, (with T. Teegerstrom and U. Schuch), 2004/2005.
- Survival Strategies for Small and Limited Resource Farmers and Ranchers: An Outreach Regional Conference, \$15,000, awarded from Davis RMA Office, (with T. Teegerstrom), 2004/2005.
- Southwest Indian Country Risk Management Education on Agri-Tourism and Specialty Agri-Product Market Opportunities, \$100,000 awarded from USDA/RMA, (with J. Hiller, and T. Teegerstrom), 2004/2005.
- Record Keeping Training for Hualapai & Havasupai Livestock Producers, \$15,000 awarded from the Western Center for Risk Management Education, (with L. Didier (PI) and T. Teegerstrom), 2004/2005.
- Reducing Human Resources and Marketing Risks of Labor Intensive Agriculture Operations, \$35,000 awarded from the Western Center for Risk Management Education, (with U. Schuch (PI) and T. Teegerstrom), 2004/2005.
- Should I Certify? Helping Producers Assess the Opportunities and Risks, \$33,000 awarded from Western Center for Risk Management Education, (with other members of the Western Extension Marketing Committee), 2003/2005.
- Risk Management Education for “Certification and Labeling Considerations for Western Agricultural Producers,” (with other members of the Western Extension Marketing Committee), \$23,940, awarded from the Western Center for Risk Management Education, Washington State University, 2002/2005.
- Arizona Risk Management Education for RMA Priority Commodities, \$79,800 awarded from USDA/RMA, (with T. Teegerstrom), 2003/2004.
- Direct Farm Marketing and Tourism Working Group Funds, \$4,000 (\$2,500 – 2005, \$1,000 – 2004, \$1000 – 2003), awarded from Coop. Extension Program funds.
- Review of Crop Suitability Study Update for Fort McDowell Yavapai Nation, \$3,000 gifted from Stantec Consulting, (with T. Teegerstrom), 2003.

- Localized Risk Management Decision Analysis using Computers, \$94,000 awarded from USDA/Risk Management Agency, (with T. Teegerstrom), 2002/2003.
- Risk Management Education for Crop and Livestock Producers, (with D. Osgood (PI) and T. Teegerstrom), \$1,000, awarded from Coop. Extension program funds, 2002/2003.
- Risk Management Education for Unusual Agricultural Enterprises, (with other members of the Western Extension Marketing Committee), \$45,675, awarded in proposal to USDA for the Western Center for Risk Management Education, Washington State University, 2001/2002.
- Risk Management Education for Arizona, \$12,500 total (\$8,000 2001, \$4,500 2000), cooperative agreement with USDA/ Risk Management Agency, (with T. Teegerstrom and D. Osgood).

Teaching (since 2006)

While my appointment does not include a formal teaching assignment, I have provided instruction through advising/mentoring students (including independent study/internship support for undergrads), faculty project advisor for Eller Business Consulting course (BNAD 597B Advanced Consulting Projects, 2020), guest-lecturing (Economics of Policy Analysis, AREC 464; Range Management, RAM 487/587; Vet Sciences 405; Beef Resource Management, ACBS 477), and co-teaching/driving with Dr. Thompson, Structure Management and Performance of American Agriculture (AREC 496a), 15 to 20 students/yr. for 2010 and 2012. Sponsored two Engineering Senior Class Projects (ENG 498) in 2010/11 and 2011/12 on “*Remote Livestock Tracking System: Phase I and II,*” working with 5–6 students each year on this project.

Advising / Theses Activities

Myles Lewis, (member) CEA PhD Dissertation, 2023-2024.
 Amir Khusru, MS Thesis (co-advisor), funding for 2023/2025.
 Sravani Chokka, MS Thesis (co-advisor), funding for 2024.
 Pavan Kalyan Thodeti, MS Thesis (co-advisor), funding for 2024.
 Heidi Tymko, (external member) University of Saskatchewan, MS, 2023.
 Jyothsna Atla, MS Thesis (co-advisor), funding for 2023/2024.
 Noelle Bell, MS Thesis (co-advisor), funding for 2022/2024.
 Praneetha Yannam, funding for 2021/2022.
 Bijoy Chowdhury, (member) Systems & Industrial Engineering, PhD Dissertation, 2021.
 Sara Masoud, (member) Systems & Industrial Engineering, PhD Dissertation in 2019.
 Rajat Gupta, (advisor) AREC, moved to non-thesis option in 2019.
 Elena Chin, (advisor) AREC MS Thesis, Feasibility of Local Food Center in Prescott Area: Market Demand Study, 2019.
 Ibrahima Sall (co-advisor), Arid Lands, PhD Thesis Committee, 3 Essays with Alliance Preferences for Beef, Acreage Response from Crop Insurance in Cotton, and Cotton Abandonment and Insurance, 2019.
 Siddharth Kishore, AREC MS Thesis, 2018.
 Weide Wang, AREC MS Thesis, 2017.

Niloy Krittika Chowdhury, AREC MS Thesis, 2016

Runfeng (Daniel) Li (advisor), AREC MS Thesis, Regional Price Variations of U.S. Alfalfa Hay, 2016.

Wenjun Wu, AREC MS Thesis, 2016.

Will Kacheris, CEA MS Thesis Committee, 2016.

Christopher S. Avery, AREC MS Thesis, 2016.

Ashutosh Kumar, AREC MS Thesis, 2016.

Chao Meng, Systems & Industrial Engineering, PhD Thesis Committee, 2015.

Gouro Camara, Investments in Energy Efficiency and Solar Photovoltaic Systems for the T.O. Nation: An Economics Feasibility Study, 2015.

Jingyu Liu, (advisor) MS Thesis Committee, 2014.

Phillip Thiesse (advisor), MS Thesis, Effects of Seasonality in ADGs and Feedlot Placements on Beef Production, 2015.

Placide Archimede Hiol (advisor), MS Thesis, Optimal Pruning Frequency of Pecans, 2013.

Faiza Saeed (exchange student advisor), PhD, International Exchange Student, The impact of price and beef attributes on beef selection: A field experiment, Aarhus School of Business, Aarhus University, Denmark, 2013.

Ibrahima Sall (co-advisor with Satheesh Aradhyula), MS Thesis, Attribute Preferences for Beef Alliances: A Bivariate Nested Panel Probit Approach, 2012.

Byron Haught, undergraduate independent study on Economics of Revitalizing the GRIC Fox Butte Feedlot, 2012.

Sam Garcia, MS Animal Sciences (member/economic advisor), Comparison of Feedlot Performance and Carcass Merit of Various Crossbred Cattle, 2011.

Luis Palafox (advisor), MS Thesis, Seasonality of Mexico and U.S. Jalapeno Pepper Prices, 2010.

Quatie Nanye-hi Jorgenson (advisor), MS Thesis, Beef Producers Preferences For Joining Beef Alliances: An Arizona And Western Canada Study, 2009.

Yanfei Liu (advisor), MS Thesis, Using Monthly Feedlot Placements to Predict Weekly Slaughter Numbers, 2008.

Jose Soto (co-advisor with Satheesh Aradhyula), MS Thesis, Acreage Allocation Analysis of Florida's Winter Tomato Production, 2008.

Derong Liu (co-advisor with Tauhid Rahman), MS Thesis, Influences on Happiness for Rural Individuals, 2008.

Romilee Bool (advisor), MS Thesis, Has Subsidized Crop Insurance Shifted Regional Cotton Production? 2008.

Heather Waters (advisor), MS Thesis, The Costs of Illegal Immigration to Arizona's Border Ranches, 2007.

Larry Gibbons, Independent Study, Economics of using Low Moisture Block as a Grazing Incentive, 2005–06.