

Pete W. Jacoby

Professor / Plant Ecologist in Department of Crop and Soil Sciences (tenure home)
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Education

Ph.D. Plant and Watershed Ecology, University of Wyoming, 1971
M.S. Rangeland Remediation, University of Wyoming, 1968
B.S. Rangeland and Forestry Sciences, Texas A&M University 1966

Professional Experience

Professor/ Scientist, WSU Crop & Soil Sciences Department., Pullman, WA 2013-present
Associate Dean, WSU College of Agriculture, Pullman, WA 1997-2013
Director, WSU Irrigated Agriculture Research/Extension Center, Prosser, WA 2009-2013
Director, Extension Agriculture Programs, WSU Extension, Pullman, WA 2007-2009
Director, University of Nebraska Research & Extension Center, North Platte, NE 1993-1997
Associate Professor/ Professor, Texas Agricultural Experiment Sta., Vernon, TX 1976-1993
Assistant Professor/ State Extension Specialist, University of Arizona, Tucson, AZ 1974-1976
Area Specialist, Texas Agricultural Extension Service, Fort Stockton, TX 1970-1973

Peer Reviewed Publications

Ansley, R.J., T.W. Boutton, and **P.W. Jacoby**. 2014. Root biomass and distribution patterns in a semi-arid mesquite savanna: responses to long-term rainfall manipulation. *Rangeland Ecology and Management* 67(2):206-218.

Symposium and Conference Proceedings

Jacoby, P.W., X.C. Ma, and J.R. Thompson. 2016. Effects of root-zone micro-irrigation on Cabernet Sauvignon. *Proceedings: Technical Education Conference on Use of Micro-irrigation in Agricultural Cropping Systems*, Irrigation Association Annual Meeting. (full-length paper and oral presentation). December 5-9, 2016. Las Vegas, NV

Zuniga, C.E., L.R. Khot, P.W. Jacoby, and S. Sankaran. 2016. Remote sensing based water-use efficiency evaluation in sub-surface irrigated wine grape vines. Proc. SPIE 9866, Autonomous Air and Ground Sensing Systems for Agricultural Optimization and Phenotyping. <http://dx.doi.org/10.1117/12.2228791/>.

Jacoby, P.W., R.T Peters, S. Sankaran, and L.R. Khot. 2015. Advancing water use efficiency in vineyards with subsurface micro-irrigation. *Proceedings: Emerging Technologies for Sustainable Irrigation, Joint ASABE/ Irrigation Association Symposium*.

Ma, X.C., **P.W. Jacoby**, and J.R. Thompson. 2016. Assessing impacts of direct root-zone Irrigation on grapevine physiology. *In: Program and Technical Abstracts, Ann. Meeting, ASA-CSSA-SSSA. Nov. 7-11. Phoenix, AZ (3rd place award – graduate poster category)*

Jacoby, P.W., S.H. Sadeghi, J.R. Thompson, Z.B. York, and X.C. Ma. 2016. Influence of direct root-zone micro-irrigation on production of Cabernet Sauvignon in the Pacific Northwest. *In: Program and Technical Abstracts, p. 97. June 27-30. Monterey, CA*

Jacoby, P.W., S.H. Sadeghi, J.R. Thompson, Z.B. York, and X.C. Ma. 2016. Influence of direct root-zone micro-irrigation on production of Cabernet Sauvignon. *In: Poster Abstracts – Ann. Meeting, WA Assn. Wine Grape Growers, pp. 20-21. Feb. 9-11. Kennewick, WA*

Sadeghi, S.H., **P. Jacoby**, B. Lamb, J. Chi, P. O’Keeffe, and H. Liu. 2016. Introducing the eddy covariance system to improve water use efficiency and grape quality in Washington vineyards. *Annual Meeting, ASABE. Orlando, FL*

Bartoshevich, R., J. Chi, S.N. Pressley, H. Liu, B.K. Lamb, P. O’Keefe, **P.W. Jacoby**, and S.H. Sadeghi. 2016. Quantifying the influence of irrigation and meteorology on water use efficiency at a vineyard in Washington. *In: Program/Proceedings – 15th Ann. Amer. Meteorological Soc. Jan. 9-10, New Orleans, LA*

Jacoby, P.W., R.T Peters, S. Sankaran, and L.R. Khot. 2015. Advancing water use efficiency in vineyards with subsurface micro-irrigation. *Joint ASABE/ Irrig. Assn. Symposium. Nov. 10-12, 2015. Long Beach, CA.*

Jacoby, P.W. 2015. Deep subsurface micro-irrigation for increasing vineyard water use efficiency. p. 125 *In: Science – a platform for progress. Technical Abstracts. 66th National Conference of the American Society of Enology and Viticulture. June 15-18, 2015. Portland, OR. 176 p.*

Jacoby, P.W. 2015. Deep subsurface drip irrigation for vineyard application. p. 3 *In: R. Hoff, ed. Poster Abstracts, Annual Meeting, Washington Assn. Wine Grape Growers. February 9-13, 2015. Kennewick, WA. 29 p.*

Extension/Outreach Presentations/Posters

Khot, L.R. and **P.W. Jacoby**. 2016. Growing vines with less water: Use of remote sensing and new irrigation methods to increase water conservation in wine grape production. Decagon Webinar Series, October 27. Pullman, WA

Jacoby, P.W., A.J. McElrone, S. Sankaran, L.R. Khot, M. Keller, and R.T. Peters. 2016. Precision sub-surface irrigation to regulate wine grape physiology. *Ann. Conference, NW Center for Small Fruits Research, Dec. 8. Kennewick, WA*

Jacoby, P.W. 2016. Impacts of season-long deficit irrigation on canopy growth and stress physiology of wine grapes. *Vit. & Enol. Extension Field Day, Benton City, WA*

Thompson, J.R. and P.W. Jacoby. 2016. Deep subsurface drip irrigation for vineyard application. *SURCA – WSU Showcase Event. Mar. 25, Pullman, WA (Crimson Award Recipient)*

York, Z.B., P.W. Jacoby, R.T. Peters, S. Sankaran, L.R. Khot, and J.R. Thompson. 2016. Deep subsurface irrigation in Concord vineyards. SURCA – WSU Showcase Event, Mar. 25. Pullman

Jacoby, P.W. 2016. Use of subsurface irrigation to increase water use efficiency and water conservation in specialty crops. Presented to Grape Technology Group organized by Gwen Hoheisel. Feb. 4, Prosser, WA

Jacoby, P.W., A.J. McElrone, S. Sankaran, L.R. Khot, M. Keller, and R.T. Peters. 2015. Precision sub-surface irrigation to regulate wine grape physiology. Ann. Conference, NW Center for Small Fruits Research, Dec.1. Portland/Clackamas, OR

Zuniga, C.E., S. Jarolmasjed, P.W. Jacoby, L.R. Khot, and S. Sankaran. 2015. Role of non-contact sensing for water management in grapevines at different growth stages. 111th Annual Meeting, WA State Hort. Assn, Dec, 7-9. Yakima, WA

Jacoby, P.W., A.J. McElrone, S. Sankaran, L.R. Khot, M. Keller, and R.T. Peters. 2015. Precision sub-surface irrigation to regulate wine grape physiology. Annual Conference, NW Center for Small Fruits Research, Dec. 1. Portland/Clackamas, OR

York, Z.B., P.W. Jacoby, R.T. Peters, S. Sankaran, L.R. Khot, and J.R. Thompson. 2015. Deep subsurface irrigation in Concord vineyards. Annual meeting, WA State Grape Society, Nov. 12-13, Grandview, WA.

Sadeghi, S.H., P. Jacoby, B. Lamb, J. Chi, P. O’Keeffe, and H. Liu. 2015. Introducing the eddy covariance system to improve water use efficiency and grape quality in Washington vineyards. 6th Annual NW Climate Conference, Nov. 3-5, Coeur d’Alene, ID

Jacoby, P.W., R.T. Peters, S. Sankaran, L.R. Khot, J.R. Thompson, and S.B. York. 2015. Deep subsurface irrigation to advance precision vineyard management. CPAAS Technology Day, September 17, 2015. WSU Prosser-IAREC.