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Journal, refereed

- Bair, K. E., and J. R. Davenport. 2012. Influence of recent acidification on available phosphorus indices and sorption in Washington state soils. *Soil Sci. Soc. Am. J.* 76: 515-521.
- Davenport, J. R., K. E. Bair, and R. G. Stevens. 2012. The Relationship Between Soil Temperature and N Release in Organic and Conventionally Managed Vineyards. *Commun. Soil Sci Plant Anal.* 43: 464-470
- Davenport, J. R., J. D. Lunden and T. Winkler. 2012. Wine Grape Tissue Nutrient Concentrations in the Inland Pacific Northwest. *Commun. Soil Sci Plant Anal.* 43: 21-27.
- Mobbs, T., R. T. Peters, J. R. Davenport, M. A. Evans, and J. Q. Wu. 2012. Effects of four soil surfactants on four soil-water properties in sand and silt loam. *J. Soil Water Cons.* 67: 275-283.
- Davenport, J. R., R. G. Stevens, K. M. Whitley, and T. Winkler. 2011. Spatial and temporal nutrient distribution in deficit-drip irrigated wine grape vineyards using bromide as a tracer. *HortScience* 46: 291-295.
- Pradubsuk, S., and J. R. Davenport. 2011. Seasonal Distribution of Micronutrients in Mature 'Concord' Grape: Boron, Iron, Manganese, Copper, and Zinc. *J. Amer. Soc. Hort. Sci.* 135:69-77.
- Pradubsuk, S. and J. R. Davenport. 2010. Seasonal uptake and partitioning of macronutrients in mature 'Concord' grape. *J. Amer. Soc. Hort. Sci.* 135(5):474-483. 2010.
- Davenport, J. R., C. DeMoranville, and T. R. Roper. 2009. Evaluation of six different soil test phosphorus extraction methods for relationship with cranberry. *Acta Hort.* 810: 627-632.
- Perry, E.M., F. J. Pierce, J. R. Davenport, and J. Smithyman. 2009. Comparing active optical and airborne measurements of grape canopies. *Acta Hort.* 824:75-84 http://www.actahort.org/books/824/824_8.htm
- Bair, K. E., J. R. Davenport, and R. G. Stevens. 2008. Release of available nitrogen after incorporation of a legume cover crop in Concord grape. *HortScience* 43: 875-880.
- Davenport, J. R., M. Keller, and L. J. Mills. 2008. How cold can you go? Frost and winter protection for grape. *HortScience* 43: 1966-1969.
- Davenport, J. R., R. G. Stevens and K. M. Whitley. 2008. Spatial and temporal distribution of soil moisture in drip irrigated vineyards. *HortScience* 43:229-235.
- Perry, E. M., and J. R. Davenport. 2007. Spectral and spatial differences in response of vegetation indices to nitrogen treatments on apple. *Computers Electronics in Agri* 59: 56-65. <http://www.sciencedirect.com/science/journal/01681699>
- Davenport, J. R., and D. E. Schiffhauer. 2007. Using commercially available ion exchange membranes to monitor plant available nutrients in cranberry. *Commun. Soil Sci. Plant Anal.*9/10: 1331 – 1340.
- Davenport, J. R., and R. G. Stevens. 2006. High soil moisture and low soil temperature are associated with chlorosis occurrence in Concord grape. *HortScience* 41: 418-422.
- Vanden Huevel, J. E., and J. R. Davenport. 2006. Growth and carbon partitioning in cranberry uprights as influenced by nitrogen supply. *HortScience* 41: 1552-1558
- Davenport, J. R., P. H. Milburn, C. J. Rosen, and R. E. Thornton. 2005. Environmental impacts of potato nutrient management. *Am. J. Potato Res.* 82:321-328.
- Davenport, J. R., E. M. Perry, N. S. Lang, and R. G. Stevens. 2005. Leaf spectral reflectance for non-destructive measurement of plant nutrient status. *HortTechnology* 15: 31 - 35.

- Vanden Heuvel, J. E., and J. R. Davenport. 2005. Effect of light, temperature, defoliation and fruiting on carbon assimilation and partitioning in potted cranberry. *HortScience* 40:1699 - 1704.
- Davenport, J. R., and C. DeMoranville. 2004. Temperature influences nitrogen release rates in cranberry soils. *HortScience* 39:80-83.
- Han, S., S. M. Schneider, R. G. Evans, and J. R. Davenport. 2004. Blocking of spatial yield data for precision farming. *Precision Agriculture* 5:73-84.
- Davenport, J. R., C. J. DeMoranville, J. Hart, S. Kumidini, K. Patten, A. Poole, and T. R. Roper. 2003. Spatial and temporal variability of cranberry soil pH. *Acta Hort.* 626:323-336.
- Davenport, J. R., J. M. Marden, L. J. Mills, and M. J. Hattendorf. 2003. Concord grape response to variable rate nutrient management. *Am. J. Vit. Enol.* 54: 286 - 293.
- Whitley, K. M., and J. R. Davenport. 2003. Nitrate leaching potential under variable and uniform nitrogen fertilizer management in irrigated potato systems. *HortTechnology* 13(4):605 - 609.
- Redulla, C. A., J. R. Davenport, R. G. Evans, M. J. Hattendorf, A. K. Alva and R. A. Boydston. 2002. Relating potato yield and quality to variability in soil characteristics. *Am. J. Potato Res.* 79:317 - 323.
- Davenport, J. R., and K. D. Patten. 2002. Nitrogen release in virgin and cultivated organic cranberry soils. *Acta Hort.* 564:341-346.
- Davenport, J. R., C. A. Redulla, M. J. Hattendorf, R. G. Evans and R. A. Boydston. 2002. Potato yield monitoring on commercial fields. *HortTechnology* 12:289-296.
- Davenport, J. R., and E. M. Bentley. 2001. Potassium fertilizer form, source and time of application influence potato yield and quality in the Columbia Basin. *Am. J. Potato Res.* 78:311-318.
- Davenport, J. R., and J. D. Jabro. 2001. Assessment of hand held ion selective electrode technology for direct measurement of soil chemical properties. *Commun. Soil Sci. Plant Anal.* 32(19&20):3077-3085
- Davenport, J. R., and M. J. Hattendorf. 2000. Using site specific approaches to advance potato management in irrigated systems. *HortTechnology* 10:452-457.
- Davenport, J. R., and D. E. Schiffhauer. 2000. Cultivar influences cranberry response to surface sanding. *HortScience* 35:53-54.
- Davenport, J.R., and N. Vorsa. 1999. Cultivar fruiting and vegetative response to nitrogen fertilizer in cranberry. *J. Amer. Soc. for Hort. Science* 124:90-93.
- Davenport, J. R., C. DeMoranville, M.T. Pitts, W. Provance. 1997. Influence of soil iron and cranberry aerobic status on phosphorus availability in cranberry (*Vaccinium macrocarpon* Ait.) soils. *Acta Hort.* 446:369-380.
- DeMoranville, C.J., and J.R. Davenport. 1997. Phosphorus forms, rates and timing in Massachusetts cranberry production. *Acta Hort.* 446:381-387.
- Davenport, J. R. 1996. The effect of nitrogen fertilizer rates and timing on cranberry yield and fruit quality. *J. Amer. Soc. Hort. Sci.* 121:1089-1094.
- DeMoranville, C.J., J. R. Davenport, K. Patten, T. R. Roper, B. C. Strik, N. Vorsa, and A. P. Poole. 1996. Development of fruit mass in three cranberry cultivars and five production regions. *J. Amer. Soc. Hort. Sci.* 12:680-685.
- Hattendorf, M.J., and J. R. Davenport. 1996. Cranberry evapotranspiration. *HortScience* 31:334-337.
- Davenport, J. R., and J. Provost. 1994. Cranberry tissue nutrient levels as impacted by three levels of nitrogen fertilizer and their relationship to fruit yield and quality. *J. Plant Nutri.* 17:1625-1634.

DeMoranville, C.J. and J. R. Davenport. 1994. Field evaluation of potassium supplements in cranberry production. *Small Fruits Viticulture* 2:81-87.

Davenport, J.R., and C.J. DeMoranville. 1993. A survey of several physical characteristics of cultivated cranberry bog soils in North America. *Comm. Soil Sci. Plant Anal.* 24:1769-1773.

Roper, T.R., K.D. Patten, C.J. DeMoranville, J.R. Davenport, B.C. Strik, and A.P. Poole. 1993. Fruiting reduces fruit set the following year in cranberry uprights. *HortScience* 18:228.

Davenport, J.R., and F.J. Peryea. 1991. Phosphate fertilizers influence leaching of lead and arsenic in a soil contaminated with lead arsenate. *Water, Air, Soil Pollution* 57-58:101-110.

Strik, B.C., T.R. Roper, C.J. DeMoranville, J.R. Davenport, and A.P. Poole. 1991. Cultivar and growing region influence on return bloom in cranberry uprights. *HortScience* 26:1366 -1367.

Davenport, J.R., and F.J. Peryea. 1990. Whole fruit mineral element composition and quality of harvested 'Delicious' apples. *J. Plant Nutri.* 13:701-711.

Davenport, J.R., and F.J. Peryea. 1989. Whole fruit mineral element content and respiration rates of harvest 'Delicious' apples. *J. Plant Nutri.* 12:701-713.

Davenport, J.R., and R.L. Thomas. 1988. Carbon partitioning and rhizodeposition in corn and bromegrass. *Can. J. Soil Sci.* 68:693-701.

Davenport, J.R., R.L. Thomas, and S.C. Mott. 1988. Carbon mineralization of corn (*Zea mays* L.) and bromegrass (*Bromus inermis* Leyss.) components with an emphasis on below-ground carbon. *Soil Biol. Biochem.* 20:471-476.

Mott, S.C., J.R. Davenport, and R.L. Thomas. 1988. Mineralization of carbon from surficial and buried corn stalks. *Can. J. Soil Sci.* 68:687-691.)

Other

Davenport J. Ancient Lakes AVA – petition submitted 2010, reviewed by TTB and public comment period completed 9 July 2012.

Granatstein, D., and J. Davenport. 2010. Internal Nitrogen Supplies for Perennial Crops. *Tilth Producers Quarterly* 20 (2):1, 10-12.

Davenport J. Snipes Mountain AVA – petition submitted 2006, granted status as AVA 20 Feb 2009. 2009 Jan 21. *Federal Register*. 74(12) pp 3422 - 3425.

Yoder J., D. Young, K. Painter, J. Chen, J. Davenport, S. Galinato. 2009. Potential for a Sugar Beet Ethanol Industry in Washington State. Report to WA State Dept of Ag.

Abstracts

Davenport J., C. Jones, M. Olmstead. Does drying temperature affect grape leave nitrogen and carbon concentration? 2009. *HortScience*. 44: pp 1148.

Davenport J., R. Stevens, J. Lunden. Canola response to N fertilizer rates in irrigated cropping systems. 2009. CD ROM ASA Abstracts. Soil Science Society of America; 5-8 Nov 2009; Pittsburgh, PA.

Davenport, J. R. and R. G. Stevens. 2008. Nutrient distribution patterns in deficit irrigated wine grape using bromide as a tracer. *Agronomy Abstracts/CD-ROM* 672-7

Davenport, J., D. Schiffhauer, and S. Crittenden. 2008. PRS™-Probes Functionally Measure the Soil Supply Rate of N and P In Cranberry Bogs. *Agronomy Abstracts/CD-ROM* 771-6

Bonds, N, L. Carpenter-Boggs, S. Verhey, J. Davenport, and S. Ulrich. 2007. Performance trials of composted mint distillery waste. *HortScience* 42: 989.

- Davenport, J., and M. Keller. 2007. How cold can you go? Frost and winter protection for grape. HortScience 42: 823.
- DeMoranville, C., T. Roper, and J. Davenport. 2007. Determining the correct phosphorus rate for productive cranberries. HortScience 42: 896-897.
- Pradubsuk, S. and J. Davenport. 2007. Fine root distribution of Concord grape (*Vitis labruscana* Bailey) in furrow irrigation. Agron. Abstracts (CD-ROM).
- Bair, K. E., R. G. Stevens, and J. R. Davenport. 2006. Improved cover crop establishment and growth is related to planting date in organic Concord grape production. HortScience 41:1080.
- Pradubsuk, S., J. R. Davenport, R. G. Stevens, and E. M. Perry. 2006. Comparison of techniques for whole plant sampling in grape. HortScience 41:1068.
- Pradubsuk, S., J. R. Davenport, and K. Whitley. 2006. Assessing whole plant mineral nutrients partitioning in Concord grape (*Vitis labruscana* Bailey). Agronomy Abstracts (CD-ROM).
- Vanden Heuvel, J. E., and J. R. Davenport. 2006. The impact of nitrogen application on nonstructural carbohydrate production in cranberry leaves. HortScience 41: 1061.
- Perry, E. M., J. Davenport, A. Atunez, and F. Pierce. 2005. Reflectance-based measures of leaf chlorophyll in a perennial crop. Agronomy Abstracts (CD-ROM)
- Davenport, J. R., M. J. Hattendorf, and J. M. Marden. 2004. Ion exchange resin capsules for nitrogen monitoring in potato. Am. J. Potato Res. 81:53.
- Davenport, J. R., E. M. Perry, N. S. Lang, and R. G. Stevens. 2003. Leaf spectral reflectance for non-destructive measurement of plant nutrient status. HortScience 38:743.
- Davenport, J. R., R. G. Stevens, and K. Whitley. 2003. Occurrence of grape chlorosis in relationship to soil and climatic conditions. HortScience 38:795.
- DeMoranville, C., T. R. Roper, and J. R. Davenport. 2003. Salt effects on cranberry soils, plant growth, and productivity. N. Am. Cranberry Res. and Ext. Workers Conf. Abstracts.
- Hattendorf, M. J., and J. R. Davenport. 2003. Topographic analysis of potato yields and SSURGO soil parameters. Agronomy Abstracts (CD-ROM).
- Perry, E. M., D. Faubion, C. Seavert, U. Schulthess, J. R. Davenport, R. G. Stevens, J. Leal and F. J. Pierce. 2003. Crop Traceability to Assess Spatial Variability of Crop Quality. Agronomy Abstracts (CD-ROM).
- Davenport, J. R., and K. M. Whitley. 2002. Non-destructive evaluation of potato nitrogen status using a hand-held NDVI meter. Agronomy Abstracts (CD-ROM).
- Davenport, J. R., J. M. Harper, and L. J. Mills. 2002. Selected vineyard soil chemical properties before and after four years of variable rate fertilizer application. Am. J. Enol. Vit. 53:257A.
- Redulla, C., J. R. Davenport, R. G. Evans, M. J. Hattendorf, A. K. Alva, and R. A. Boydston. 2001. Relating potato yield and quality to variability in soil characteristics. Am. J. Potato Res. 78:478.
- Davenport, J. R., C. J. DeMoranville, and T. R. Roper. 2001. Water and fertilizers for remediation of salt affected cranberry soils. HortScience 36: 571.
- Davenport, J. R., C. Redulla, M. J. Hattendorf, R. G. Evans, and R. A. Boydston. 2001. Evaluation of potato yield monitoring on commercial fields. HortScience 36: 539.

- Perry, E. M., J. R. Davenport, J. Tarara, and N. S. Lang. 2001. Early detection of grape water deficit stress using leaf spectral reflectance. *HortScience* 36: 507.
- Roper, T. R., A. R. Krueger, C. J. DeMoranville, and J. R. Davenport. 2001. Sodium and chloride effects on cranberry growth in aeroponics. *HortScience* 36:466.
- Whitley, K. M., J. R. Davenport, and S. R. Manley. 2001. Potato yield and quality response to variable rate nitrogen fertilizer. *HortScience* 36: 503.
- Alva, A. K., T. Hodges, J. R. Davenport, J. D. Jabro, and R. A. Boydston. 2000. Effect of irrigation and tillage on potato production in a sandy soil. *Agronomy Abstracts* 92:270.
- Davenport, J. R. 2000. How variability in soil chemistry affects nutrient availability. *Western Precision Ag. Conf. Abstracts* p 41-42.
- Davenport, J. R., A. K. Alva, K. M. Whitley, and J. D. Jabro. 2000. Polymer coated slow release nitrogen fertilizer for irrigated potato. *Agronomy Abstracts* 92:269.
- Davenport, J. R., N. S. Lang, and E. M. Perry. 2000. Leaf spectral reflectance for early detection of disorders in model annual and perennial crops. *5th International Conf. on Prec. Ag Abstracts*. 185.
- Davenport, J. R., and K. D. Patten. 2000. Nitrogen Release in virgin and cultivated organic cranberry soils. *7th Inter. Symp. Vaccinium Culture*.
- Jabro, J. D., A. K. Alva, J. E. Cochran, J. R. Davenport, and R. A. Boydston. 2000. Spatial and temporal distribution of soil water content in a Quincy sand soil. *Agronomy Abstracts* 92:200.
- Khemira, H., J.M. Lageschulte, F. J. Peryea, and J.R. Davenport. 2000. Comparison of four methods for quantifying soil nitrate. p.53. *4th Int. Symp. on Mineral Nutrition of Deciduous Fruit Crops*. Penticton, BC, Canada. 13-18 August 2000.)
- Wample, R. L., J. Davenport, S. Lang, L. Mills, and J. Tarara. 2000. Application of precision agriculture techniques to Washington juice grapes. *Western Precision Ag Conf Abstracts* p 67- 68.
- Whitley, K. M., J. R. Davenport, and S. R. Manley. 2000. Differences in nitrate leaching potential under variable and conventional nitrogen fertilizer management in irrigated potato systems. *5th International Conf. on Prec. Ag Abstracts*. 40.
- Davenport, J. R. 1999. Using site-specific applications to advance potato management in irrigated systems. *HortScience* 34(3): 559.
- Davenport, J. R. and C. DeMoranville. 1999. Relationship of soil temperature, pH, and organic carbon content to nitrogen release in cranberry soils. *HortScience* 34(3):537.
- DeMoranville, C., and J. Davenport. 1999. Use of cultivar and plant characteristics as the basis for fertilizer nitrogen applications in cranberry (*Vaccinium macrocarpon* Ait.). *HortScience* 34(3):536-537.
- Khemira, H., J. M. Lageschulte, F. J. Peryea, and J. R. Davenport. 1999. Comparison of four methods for quantifying soil nitrate. *Agron. Abstracts* 91:241.
- Peryea, F.J., J.M. Lageschulte, K. Lorentz, H. Khemira, D. Granatstein, J. Davenport, and S. Drake. 1999. Effect of fertilizer source on soil nitrogen availability. p.17. *Poster Session Abstr. 36, 95th Annu. Mtg. Washington State Hort. Assoc.* 6-8 Dec. 1999.
- Whitley, K. M., J. R. Davenport, and S. R. Manley. 1999. Site specific management of spatially varying nitrogen on a landscape scale. *Agron. Abstracts*. 91:175.
- Davenport, J.R. and C. DeMoranville. 1997. Seasonal nitrogen release in cranberry soils is influenced by soil temperature and type. *NACREW, Madison, WI, Oct 9 - 11*.
- DeMoranville, C. and J. Davenport. 1997. Nitrogen use in cranberry production can be based on vegetative growth, plant chlorophyll, tissue nitrogen, and cultivar. *NACREW, Madison, WI, Oct 9 - 11*.

Hattendorf, M.J., R.G. Evans, S.M. Schneider, S. Han, J.R. Davenport, and R. A. Boydston. 1997. Spatial variability of evapotranspiration for site-specific management. *Agronomy Abstracts*. p19.

Schneider, S.M., R.A. Boydston, S. Han, R.G. Evans, M.J. Hattendorf, and J. R. Davenport. 1997. Site specific management for potatoes: A team approach. *Agronomy Abstracts*. p. 18.

Schneider, S.M., R.A. Boydston, S. Han, M.J. Hattendorf, J. R. Davenport, and R.G. Evans. 1997. Mapping field, pest, and yield characteristics for potato production. *Agronomy Abstracts* p. 113.

Averill, A.L., F.L. Caruso, J.R. Davenport, and C.J. DeMoranville. 1992. Integrating past and present management strategies for a LISA approach to cranberry production. *Agronomy Abstracts* p. 135.

Doolittle, J.A., J. Turenne, P.C. Fletcher, and J.R. Davenport. 1991. Radar survey of cranberry bogs in Southeast Massachusetts. *Agronomy Abstracts* p. 310.

Hattendorf, M.J., R.E. Yoder, and J.R. Davenport. 1991. Cranberry evapotranspiration. *Agronomy Abstracts* p. 18.

Davenport, J.R. 1990. Foliar nutrient uptake in cranberry. *HortScience* 25:1148.

Strik, B.C., T.R. Roper, C.J. DeMoranville, J. R. Davenport, and A.P. Poole. 1990. Biennial bearing in cranberry. How extensive is it? *HortScience* 25:1065.

Peryea, F.J., and J.R. Davenport. 1989. Whole fruit mineral element analyses as a predictor of postharvest quality of Washington-grown apples. *Abstr. Internat. C.A. Res. Conf.* p. 31.

Peryea, F.J., and J.R. Davenport. 1989. Phosphate fertilizer effects on arsenic and lead translocation in lead arsenate contaminated soils. *Proc. Wash. Hort. Soc.*

Davenport, J.R., and F.J. Peryea. 1988. Influence of phosphorus amendment and leaching regime on the chemistry of a soil contaminated with lead arsenate. *Agronomy Abstracts* p. 196.

Davenport, J.R., and F.J. Peryea. 1987. Temporal changes in quality parameters of post-harvest and post-CA storage 'Delicious' apple fruit. *HortScience* 22:1055.

Davenport, J.R., and F.J. Peryea. 1987. Mineral nutrient content of "Delicious" apple fruit in relation to fruit quality and condition. *HortScience* 22:1144.

Davenport, J.R., and R.L. Thomas. 1986. Field scale projection models of carbon mineralization and rhizodeposition as predictors of soil structural stability. *Agronomy Abstracts* p. 177.

Davenport, J.R., and R.L. Thomas. 1985. The deposition and decomposition of below-ground carbon in two cropping systems. *Canadian A.I.S. 1985 Abstr.*

Davenport, J.R., and R.L. Thomas. 1984. The rhizodeposition of C-14 under corn and bromegrass. *Agronomy Abstracts* p. 184.

Davenport, J.R., and R.L. Thomas. 1984. Rhizodeposition in relation to aggregate stability. *Canadian Soil Sci. Soc. Abstracts*.

Davenport, J.R., and R.M. Cruse. 1981. Cropping history can fertilizer interaction effects on runoff water quality. *Agronomy Abstracts* p. 24.

Extension Bulletins, Circulars, etc.

Peters, R. T., and J. R. Davenport. 2012. Managing irrigation water for different soil types in the same field. *WSU Coop. Ext. FS086E*.

Davenport, J. R., and D. A. Horneck. 2011. Sampling guide and nutrient assessments for irrigated vineyards of the inland Pacific Northwest. *PNW 622*.

Olmstead, M., J. Davenport, and R. Smithyman. 2005. Blackleaf in grapes. WSU Coop Ext. EB0745.

Roper, T., J. Davenport, C. DeMoranville, S. Marchand, A. Poole, and K. Patten. 2004. Phosphorus for bearing cranberries in North America. Multi-state publication printed by the University of Wisconsin - Madison.

Strik, B., P. Bristow, A. Broaddus, J. Davenport, J. T. DeFrancesco, M. English, G. Fisher, S. Fitzpatrick, J. Hart, D. Henderson, B. Larson, K. Patten, J. Pinkerton, A. Poole, J. Pscheidt, and N. Vorsa. 2002. Cranberry production in the Pacific Northwest. PNW 247.

Davenport, J., C. DeMoranville, J. Hart, and T. Roper. 2000. Nitrogen for bearing cranberries in North America. OSU, UMASS, WSU and UW Extension Bulletin EM 8741. (*This bulletin has been translated into French as of September 2000*).

Davenport, J., C. DeMoranville, J. Hart, K. Patten, L. Petersen, T. Planer, A. Poole, T. Roper, and J. Smith. 1995. Cranberry tissue testing for producing beds in North America. Jointly published by Northland Cranberries, Ocean Spray Cranberries, Inc., Oregon State University, University of Massachusetts Cranberry Experiment Station, University of Wisconsin, and Washington State University Bulletin. 4 pages.

Proceedings

Davenport, J. R., and R. G. V. Bramley. 2007. Spatial and temporal variability in winegrape nutrients. Proc. Western Nutrient Mgmt. Conf. 7: 25-32.

Davenport, J. R., E. M. Perry and R. G. Stevens. 2007. Non-destructive Measurement of Perennial Fruit Crop N Status .Proc Western Nutrient Mgmt. Conf. 7:141-146.

Stevens, R., and J. R. Davenport. 2006. Cover crops to supply N for organic grape production. Proc. NW Center for Small Fruits Research 15:47-50.

Davenport, J. R. 2005. What makes quality soil? p. 81 – 83 (Chpt 13) in M. D. Whiting (ed.) Producing Premium Sweet Cherries: Pacific Northwest Fruit School Proceedings. Good Fruit Grower, Yakima, WA.

Davenport, J. R., and R. G. Stevens. 2005. Investigation of potential climatic and nutritional causes of grape chlorosis. Proc. NW Center for Small Fruits Research 14:38-46.

Davenport, J. R., and R. G. Stevens. 2005. Developing tissue nutrient standards for irrigated wine grape production in the Pacific Northwest. Proc. NW Center for Small Fruits Research 14: 66 – 71.

Stevens, R., and J. R. Davenport. 2005. Cover crops to supply N for organic grape production. Proc. NW Center for Small Fruits Research 14: 90-95.

Stevens, R. G., J. R. Davenport, K. M. Whitley, and J. M. Marden. 2005. Water and nutrient distribution with drip irrigated wine grapes. Proc Western Nutrient Mgmt. Conf. 6: 61-66.

Davenport, J. R., and R. G. Stevens. 2004. Investigation of potential climatic and nutritional causes of grape chlorosis. Proc. NW Center for Small Fruits Research 13:59-66.

Stevens, R., and J. R. Davenport. 2004. Cover crops to supply N for organic grape production. Proc. NW Center for Small Fruits Research 13: 86-89.

Stevens, R., and J. R. Davenport. 2003. Cover crops to supply N for organic grape production. Proc. NW Center for Small Fruits Research 12: 89-90.

Davenport, J. R., and R. G. Stevens. 2002. Investigation of potential climatic and nutritional causes of grape chlorosis. Proc. NW Center for Small Fruits Research 11:88-93.

Davenport, J. R., and R. G. Stevens. 2002. Soil sampling for drip fertigated grapes. Proc. NW Center for Small Fruits Research 12:94-95.

- Davenport, J. R., and R. G. Stevens. 2001. Investigation of potential climatic and nutritional causes of grape chlorosis. *Proceedings of the Northwest Center for Small Fruits Research* 10:48 - 52.
- Davenport, J. R., L. J. Mills, J. M. Tarara, F. J. Pierce, and N. S. Lang. 2001. Application of GPS, GIS, yield monitors and brix monitors for effective vineyard management. p 50 - 55 In A. G. Reynolds (ed.) *Proc. Space Age Wine Growing, ASEV/ES, Niagara-on-the Lake, Ontario, Canada.*
- Davenport, J. R., E. M. Bentley, and K. M. Whitley. 2001. Potassium fertilizers and potato yield and quality in the Columbia Basin. p. 137 - 143 In B. Brown (ed) *Proc. Western Nutrient Management Conference, Vol. 4. 8 - 9 March 2001, Salt Lake City, Utah.*
- Schneider, S., S. Han, R. Boydston, J. Davenport, R. Evans, and M. Hattendorf. 2001. GPS technology for plant growth management in the 21st century (Keynote Address). *Proc Western Plant Growth Reg Soc.* p. 4 – 10.
- Davenport, J. R., N. S. Lang, and E. M. Perry. 2000. Leaf spectral reflectance for early detection of disorders in model annual and perennial crops. CD ROM paper number 62. In P. C. Robert (ed). *Proc.5th Intern. Conf. Precision Agriculture, 16 - 19 July 2000, Minneapolis, MN.*
- Perry, E. M., S. Lang, J. Davenport, D. N. Anderson, and K.H. Jarman. 2000. Spectral reflectance monitoring of crop stress. In: *Second International on Geospatial Information in Agriculture and Forestry Conference, Lake Buena Vista, Florida, 10-12 January 2000, Vol. I, pp344-350.*
- Wample, R. L., J. Davenport and L. Mills. 2000. Estimates of water and nutrient movement in a commercial vineyard. In *Proceedings 5th Internat. Symp. Cool Climate Viticulture Oenology [CD-ROM] Winetitles, Adelaide, South Australia.*
- Wample, R. L., J. R. Davenport, N. S. Lang, L. Mills, and J. Tarara. 2000. Applications of precision agriculture techniques to Washington juice grapes. *Viticulture 2000 (Cornell University Cooperative Extension Service)* p. 51 - 54.
- Whitley, K. M., J. R. Davenport, and S. R. Manley. 2000. Difference in nitrate leaching under variable and conventional nitrogen fertilizer management in irrigated potato systems. CD ROM paper number 208. In P. C. Robert (ed). *Proc.5th Intern. Conf. Precision Agriculture, 16 - 19 July 2000, Minneapolis, MN.*
- Davenport, J. R., M. J. Hattendorf, and R. E. Evans. 1999. Large scale phosphorus field trials for developing VRT fertilizer needs models. *Proc.1999 West. Nutrient Management Conf., Salt Lake City, Utah, March 4-5, 1999.*
- Davenport, J. R., M. J. Hattendorf, S. Han, R. G. Evans, and S. M. Schneider. 1999. Phosphorus fertilizer management strategies for variable rate fertilizer applications in center pivot irrigated potato rotations. p. 745 - 752 In P. Robert, R. H. Rust, and W. E. Larson (eds). *Proc. 4th International Conf.on Precision Ag., Minneapolis-St Paul 19-22 July 1998. ASA/CSSA/SSSA Press, Madison, WI.*
- Davenport, J. R., P. V. Oudemans, M. G. Hughes, and A. Lee. 1999. Evaluating commercial cranberry bogs for variability: Developing information for precision management. pp. 907-913 In P. Robert, R. H. Rust, and W. E. Larson(eds). *Proc. 4th Internat. Conf. on Precision Ag., Minneapolis-St Paul, July 18-22,1998. ASA/CSSA/SSSA Press, Madison, WI.*
- Davenport, J. R., R. L. Wample, N. S. Lang, E. M. Perry, L. Mills and J. Tarara. 1999. Developing precision agriculture management strategies for Washington juice grapes. *Proc. WA State Grape Soc* 20: 50-59.
- Hughes, M. G., P. V. Oudemans, J. R. Davenport, K. Ayres, T. M. Airola, and A. Lee. 1999. Evaluating commercial cranberry bogs for variability and yield using remote sensing techniques. pp. 1493-1500 In P. Robert, R. H. Rust and W. E. Larson (eds.). *Proc. 4th Internat. Conf. on Precision Ag., Minneapolis-St. Paul July 18-22, 1998. ASA/CSSA/SSSA Press, Madison, WI.*
- Wample, R. L., L. Mills, and J. R. Davenport. 1999. Use of precision farming practices in grape production. pp. 897-905 In P. Robert, R. H. Rust, and W. E.Larson (eds). *Proc. 4th Internat. Conf.on Precision Ag., Minneapolis-St Paul July 19-22, 1998. ASA/CSSA/SSSA Press, Madison, WI.*
- Doolittle, J.A., J.R. Davenport, P.C. Fletcher, and J. Turenne. 1991. Morphometry of cranberry bogs formed in kettle and outwash channels in Southeast Massachusetts. pp. 87-92 In J.M. Kimble (ed.) *Proc. 8th Internat. Soil Corr. Mtg., USDA, SCS, NSSC, Lincoln, NE.*

Popular Periodicals

- Davenport, J. 2008. It starts with the soil. *Good Fruit Grower* 59(8):
- Davenport, J.R. 2006. In my view: Viticulture in Australia. *The Good Fruit Grower* 57:61.
- Fitzpatrick, S. M., and J. R. Davenport. 2003. Flooding for control of girdler larvae. *Cranberries* 67(1):12-14
- Davenport, J. R. 2000. Potassium and specific gravity of potato tubers. *Better Crops with Plant Food* 84(4):14 - 15.
- Davenport, J. R., C. DeMoranville, J. Hart, and T. Roper. 2000. Introducing a new nitrogen publication for cranberries. *Cranberries* 64(6): 28.
- Davenport, J., L. Dever, R. Evans, M. Hattendorf, D. Nerpel, and W. Rehberg. 1999. Precision farming in potatoes: A case study. *Potato Country* July/August 1999:20-21.
- Davenport, J. R., and N. Vorsa. 1997. Nitrogen fertilizer effects on major cranberry cultivars. *Horticultural News*:78(4): 12-15.
- Davenport, J. R. 1997. Nitrogen fertilizer management for British Columbia cranberry production. *Cranberries* 61(4):13-17.
- Davenport, J., C. DeMoranville, J. Hart, K. Patten, L. Peterson, T. Planer, A. Poole, T. Roper, and J. Smith. 1996. Cranberry tissue testing for producing beds in North America. *Cranberries* 60(7):11-14.
- Davenport, J.R. 1996. North American cranberry research project funding, 1996. *Cranberries* 60(5):15-19.
- Davenport, J. R. 1995. North American cranberry research project funding, 1995. *Cranberries* 59(6):12-16.
- Davenport, J.R., C. DeMoranville, and J. Carpenter. 1995. Humates and humic acid as supplements for cranberry production. *Cranberries* 59(7):10-12.
- Davenport, J. R., J. Carpenter, and K. Sullivan. 1995. Multiple year fruiting in cranberries in New Jersey. *Cranberries* 59(5):10-11.
- Davenport, J. R. 1994. Nitrogen: How fertilizer rates and timing influence cranberry yield and fruit quality. *Cranberries* 58(2):13-17.
- Davenport, J.R., C. DeMoranville, and P.C. Fletcher. 1994. Fertilizer mobility in cranberry soils. *Cranberries* 58 (1):11-19.
- Provost, J., and J. R. Davenport. 1994. The chlorophyll meter as a tool for monitoring cranberry nitrogen needs. *Cranberries* 58(3):23-27.
- Davenport, J.R. 1993. Nitrogen: Its role and function in cranberry plants. *Cranberries* 57 (9):14 - 15.
- Davenport, J.R., C.J. DeMoranville, A.P. Poole, T.R. Roper, and B.C. Strik. 1991. Biennial bearing in cranberries. *Cranberries* 55:8-9.

Newsletter Articles

- Bair, K. E., and J. R. Davenport. 2012. Influence of recent acidification on soil test phosphorus and P sorption. *Nutrient Digest* 4(2):1, 3-4.
- Davenport, J. 2012. Selected wine grape macro nutrient deficiencies. *Nutrient Digest* 4(2):5-6.
- Davenport, J. 2006. Does between-row compost application affect available soil moisture in grapes? *WSU Wine and Grape Research and Extension Newsletter* 16(4):9-10.
- Davenport, J. 2005. Grapevine nutrient management in a drought year. *WSU Wine and Grape Research and Extension Newsletter* 15(2):2-3.

Davenport, J. R., R. G. Stevens, and K. Bair. 2005. Using leguminous cover crops as a nitrogen source for organic grape production. *Sustaining the Pacific Northwest* 3(3):4-6.

Davenport, J. 2004. Vine nutrient management: foliar feeds, a question of balance. *WSU Wine and Grape Research and Extension Newsletter* 14(2):2-3.

Davenport, J., B. Stevens, K. Whitley and J.Marden. 2004. Grape chlorosis: Recent findings. *WSU Grape and Wine Research and Extension Newsletter* 14(1): 3.

Davenport, J. R. 2003. Grape Response to variable rate fertilizers management. *Agrichemical and Environmental News* 204: 8 - 17. Available online at <http://aenews.wsu.edu/Apr03AENews/Apr03AENews.htm>

Davenport, J. R. 2000. Are plants what they eat? Organic versus Synthetic Nitrogen Fertilizers? *Agrichemical and Environmental News* 165:19-20.

Davenport, J. R. 2000. Plant Root Simulators: A promising new tool for nutrient monitoring. *Spud Topics* XXXV(14):3.

Davenport, J. R. 2000. The Center for Precision Agricultural Systems. *WSU Wine Grape Research News* 11(1):10-11.

Davenport, J. R. 2000. Precision Ag Center Introduced at WSU. *Agrichemical and Environmental News* 172:4-5.

Davenport, J. R. 1999. Water Quality - What is being said, what is being done, and what does it all mean? *Agrichemical and Environmental News*, 157: 1-4.

Davenport, J. R. 1998. Precision Agriculture: Futuristic farming may be closer than you think. *Agrichemical and Environmental News* 145:1-3.

PRESENTATIONS (since arriving at WSU-Prosser)

Research/Scientific 1997 – 2012

- Sep 26 2011 Differences between deficiency symptoms in red and white wine grapes. American Society for Horticultural Sciences, Kona, HI
- Nov 7 2009 Canola response to N fertilizer rates in irrigated cropping systems. Soil Science Society of America, Pittsburgh, PA
- Aug 10 2009 Nitrogen and Phosphorus in Cranberry Water. 2009. North American Cranberry Research and Extension Workers Conference; Moncton, New Brunswick, Canada.
- July 21 2009 Davenport J., J. Lunden, T. Winkler. Winegrape Tissue Nutrient Concentrations in the Inland Pacific Northwest. International Symposium on Soil and Plant Analysis, Santa Rosa, CA.
- July 21 2009 Davenport J., K. Bair, R. Stevens. The relationship between soil temperature and N release in organic and conventionally managed vineyards. International Symposium on Soil and Plant Analysis, Santa Rosa, CA.
- Oct 6 2008 Nutrient distribution patterns in deficit irrigated wine grape using bromide as a tracer. Soil Science Society of America, Houston, TX
- July 16 2008 Evaluation of six different soil test phosphorus extraction methods for relationship with cranberry. International Vaccinium Symposium, Corvallis, OR
- Oct 1 2007 Managing fertilizer for phosphorus deficient cranberry beds. NACREW, Egg Harbor, NJ.
- July 17 2007 How cold can you go? Frost and winter protection for Grape. **Invited** presentation, ASHS, Scottsdale, AZ
- July 17 2007 Performance trials of composted mint distillery waste. ASHS, Scottsdale, AZ
- Dec 12 2006 Manejo de fertilidad y nutrición en vides viníferas. **Invited** presentation at the International Seminar: "Actualización en el manejo de vides viníferas" Centro Regional de Investigación, Reytue, Chile
- July 30 2006 Comparison of techniques for whole plant sampling in grape. ASHS New Orleans, LA.
- June 13 2005 *Vaccinium* and *Vitis* extracts as anti-oxidant sources. Poster Presentation, International Berry Health Benefits Symposium, Corvallis, OR.
- Aug 11 2003 Ion exchange resin capsules for nitrogen monitoring in potato. Poster presentation at the 2003 Potato Association of America Annual Meeting, Spokane, WA. 10 - 14 August 2003.

- Oct 4 2003 Leaf spectral reflectance for non-destructive measurement of plant nutrient status. **Invited** workshop presentation at the 2003 American Society for Horticulture Science Annual Meeting, Providence, RI. 3 - 6 October 2003.
- Oct 5 2003 Occurrence of grape chlorosis in relationship to soil and climatic conditions. Poster presentation at the 2003 American Society for Horticulture Science Annual Meeting, Providence, RI. 3 - 6 October 2003
- Oct 9 2003 Salt effects on cranberry soils, plant growth, and productivity. Oral presentation at the 2003 North American Cranberry Research and Extension Workers Conference Biannual Meeting, E. Wareham, MA . 8 - 10 October 2003..
- June 26 2002 Selected vineyard chemical properties after four years of variable rate fertilization. Poster presentation, 26 - 28 June 2002, American Society for Viticulture and Enology, Portland, OR
- Aug 13 2002 Precision agriculture. **Invited** oral presentation at Workshop 19, International Horticultural Congress, Toronto, Ontario, Canada, 10- 17 August 2002.
- Aug 13 2002 **Invited** workshop convener and moderator, Workshop 19: Managing water and nitrogen for improved use efficiency in potato production. International Horticultural Congress, Toronto, Ontario, Canada, 10 - 17 August 2002.
- Aug 1 2002 Spatial and temporal variability of cranberry soil pH. Poster presentation, International Horticultural Congress, Toronto, Ontario, Canada, 10 - 17 August 2002.
- Dec 3 2002 Investigation of Potential Climatic and Nutritional Causes of Grape Chlorosis. Northwest Center for Small Fruits Annual Meeting, Portland, OR, 3 December 2002.
- Dec 3 2002 Soil sampling for drip fertigated grapes. Northwest Center for Small Fruits Annual Meeting, Portland, OR, 3 December 2002.
- April 26 2001 Relating potato yield and quality to variability in soil characteristics. Oral presentation, 22 - 26 April 2001, Potato Association of America, St. Augustine, Florida.
- March 8 2001 Potassium fertilizers and potato yield and quality in the Columbia Basin. Poster presentation 7 - 8 March 2001, Western Nutrient Management Conference, Salt Lake City, Utah.
- July 11 2001 Application of GPS, GIS, yield monitors and brix monitors for effective vineyard management. **Invited** presentation, Space Age Wine Growing, ASEV/ES, Niagara-on-the Lake, Ontario, Canada.
- July 11 2001 Wine growing in 2025. **Invited** panel discussion panelist, Space Age Wine Growing, ASEV/ES, Niagara-on-the Lake, Ontario, Canada.
- July 24 2001 Evaluation of potato yield monitoring on commercial fields. Poster presentation, American Society for Horticultural Science, Sacramento, CA.
- July 25 2001 Water and fertilizers for remediation of salt affected cranberry soils. Oral presentation, American Society for Horticultural Science, Sacramento, CA.
- Nov 27 2001 Investigations of potential climatic and nutritional causes of grape chlorosis. Oral presentation, NW Center for Small Fruits Research, Boise, ID.
- July 18 2000 Leaf spectral reflectance for early detection of disorders in model annual and perennial crops. Poster presentation at the 5th International Conference on Precision Agriculture, 16 - 19 July 2000, Minneapolis, MN.
- Dec 8 2000 Nitrogen Release in virgin and cultivated organic cranberry soils. 7th International Symposium on Vaccinium Culture, Chillan, Chile.
- Jan 7 1999 Sulfate Plus on potatoes in Eastern Washington. Presentation at a Sulfur Fertilizer Symposium in Spokane, WA, Sponsored by Agrium.
- Feb 19 1999 Field deployable, real time sensors for early detection of crop stress. Report for the Motorola Research Review, Richland, WA.
- Mar 4 1999 Large Scale Phosphorus Field Trials for Developing VRT Fertilizer Needs Models. Oral Presentation at the Western Nutrient Management Meeting, Salt Lake City, UT.
- Jul 30 1999 Relationship of soil temperature, pH, and organic carbon content to nitrogen release in cranberry soils. Oral presentation at the American Society for Horticultural Science Annual Meeting, Minneapolis, MN.
- Jul 30 1999 Using site-specific applications to advance potato management in irrigated systems. **Invited** oral colloquium presentation at the American Society for Horticultural Science Annual Meeting, Minneapolis, MN.
- Mar 20 1998 Cranberry fruit mass, color and sugar development as affected by climatological factors. **Invited** seminar at the University of Laval, Quebec City, Quebec, Canada.
- Apr 1 1998 Precision agriculture to reduce non-point source sediment and nutrient loading. **Invited** presentation WA Dept. of Ecology Conf.: Partnerships in Preventing Polluted Runoff, Wenatchee, WA.
- Jul 20 1998 Evaluating commercial cranberry bogs for variability: Developing information for precision management. Poster presentation International Precision Agriculture Symposium, St. Paul, MN.
- Jul 20 1998 Use of precision farming practices in grape production. Poster presentation International Precision Agriculture Symposium, St. Paul, MN.
- Jul 21 1998 Phosphorus fertilizer management strategies for variable rate fertilizer applications in center pivot irrigated potato rotations. Oral presentation Internat. Precision Agriculture Symposium, St. Paul, MN.

- Jul 27 1998 Environmental implications of potato nutrient management. **Invited** Symposium presentation, Potato Assoc. of America Annual Meeting, Fargo, ND. (No abstract).
- Oct 30 1997 Spatial variability of evapotranspiration for site-specific management. Poster at the Amer. Soc. Agron Meetings, Anaheim, CA.

Extension/Outreach (Invited Presentations) – 1997 – 2012

- Nov 15 2012 Concord Grape Report Card. Washington State Grape Society Annual Meeting. Grandview WA.
- Sep 15 2012 Soils: Phosphorus and Water Movement. Statewide Master Gardeners. Pasco, WA.
- Aug 10 2012 Nitrogen Fertilizer Management for Concord Grape. WSGS/WSU Viticulture Field Day, Prosser, WA
- Mar 5 2012 Cranberry Fertilizer Facts and Myths. Ocean Spray Cranberries, Inc. Annual Grower Meeting, Orlando, FL
- Apr 3 2012 Soils: Phosphorus and Water Movement. Benton County Master Gardeners. Kennewick, WA.
- Feb 8 2012 Foliar vs Granular Fertilizers. WAWGG Annual meeting, Kennewick, WA (presented via Skype from Chile).
- Nov 18 2011 Grape Nutrient Deficiency Symptoms: A Pictorial Parade. Washington State Grape Society Annual Meeting, Grandview, WA
- Nov 17 2011 Sustainability report card for Concord Grape. Washington State Grape Society Annual Meeting, Grandview, WA
- Aug 12 2011 Nutrient Deficiency Symptoms in Red and White Wine Grapes. Washington State Grape Society Field Day, Prosser, WA
- Aug 9 2011 Tissue testing and nutrient management for wine grapes. Idaho Wine Commission Summer Field Day. Nampa, ID
- May 19 2011 Nutrient and Soil Moisture Management to Balance Canopy and Crop. WSU/WAWGG “Get set for Bloom Workshop”, Richland, WA
- May 19 2011 Cover crops for grapes. NRCS Workshop: Cover Crops in Orchard and Vineyard Training, Quincy, WA
- Apr 30 2011 Water use history of hops and grapes in Central Washington. 8th Washington Hydrology Symposium, Prosser, WA
- Feb 9 2011 Grape Leaf Tissue Testing for the Irrigated Pacific Northwest. WAWGG Annual meeting, Kennewick, WA,
- Feb 7 2011 Understanding and exploring water movement in cranberry bog soils. B.C. Cranberry Congress, Richmond, BC
- Feb 2 2011 Soils of Eastern Washington. Yakima Master Gardener Program, Ahtanum, WA.
- Jan 19, 2010 Cranberry Nutrition Basics. BC Cranberry Congress, Richmond, BC.
- Jan 19, 2010 Tools for Nutrition Management. BC Cranberry Congress, Richmond, BC.
- Jan 31, 2010 Cranberry Nutrition: An A to Z Guide. Washington Winter Cranberry Grower’s Meeting, Raymond, WA,.
- Feb 5, 2010 Matching Variety to Site. Washington Association of Wine Grape Growers Annual Meeting, Kennewick, WA.
- Aug 3, 2010 Tissue Test Standards for Perennial Fruit Crops in the Inland Pacific Northwest: A discussion of recent developments of standards for tissue-testing in grapes and an overview of information on apples. Spokane, WA
- Nov 18, 2010 Alphabet Soup for Concord Grapes. Washington State Grape Society, Grandview, WA.
- Dec 15, 2010 Tissue Test Standards for Perennial Fruit Crops in the Inland Pacific Northwest: A discussion of recent developments of standards for tissue-testing in grapes and an overview of information on apples. Pasco, WA
- Nov 19 2009 Winegrape tissue nutrient standards for the irrigated Pacific Northwest. Washington State Grape Society, Grandview, WA.
- July 28 2009 Research advances in wine and juice grape: field and pot studies Washington State Grape Society Summer Field Day, Prosser, WA.
- Nov 20 2008 Nitrogen management and grape quality. Washington State Grape Society, Grandview, WA.
- June 30 2008 Avoiding common mistakes in the winery. Western Washington Wine Workshop. Mt. Vernon
- Apr 22 2008 It is a Disease or is it a Disorder? Grape Disease Workshop,, Prosser, WA.
- Apr 12 2008 Soils for producing premium grapes. Vines to Wine Workshop, Prosser WA
- Apr 12 2008 Soil and tissue testing for new and established vineyards. Vines to Wine Workshop, Prosser WA
- 20 Feb 2009 Nutrient uptake in Concord grape. National Grape local grower meetings. 2 meetings, Wapato, WA and Grandview, WA
- Feb 7 2008 Soil sampling and testing. WAWGG Annual Meeting, Kennewick, WA.
- Dec. 11 2007 Soil and tissue testing does and don’ts for vineyards and orchards. Far West Fertilizer Annual Conference, Kennewick, WA.
- Dec. 6 2007 Concord grape mineral nutrient distribution, Part 2: Micronutrients. Grape fieldmen’s breakfast, Prosser, WA.

Nov. 14 2007 Concord whole plant C-N-P-K Budget. Washington State Grape Society Annual Meeting, Grandview, WA.

Nov. 1 2007 Concord grape mineral nutrient distribution, Part 1: Ca, Mg, S. Grape fieldmen's breakfast, Prosser, WA.

Oct. 31 2007 Soil moisture distribution in drip irrigated vineyards. Wine Tourism- Georgia (the country). Prosser, WA.

Sept. 22 2007 Wine judging: Are the judges really blind? Harvest School, Wenatchee, WA.

Feb. 21 2007 Nutrition for Concord Grape Vineyards. National Grape Local Area Growers Meetings (3 meetings, held in two locations [Wapato, Grandview], over 21 & 22 Feb)

Feb. 20 2007 Nutrient variability in vineyards and orchards. InfoAg Northwest, Kennewick, WA,

Feb. 20 2007 Sensors for in-season N management. InfoAg Northwest, Kennewick, WA

Nov. 16 2006 Do you know what your vine needs? Washington State Grape Society Meeting, Grandview, WA.

Aug. 22 2006 Partitioning of mineral nutrients in grapevines. Washington Association of Wine Grape Grower's Research Field Day.

July 19 2006 Potato Specific Gravity and Nutrient Management. Presentation at the Potato Growers of Alberta Summer Meeting, Taber, Alberta.

Feb. 28 2006 Does precision viticulture apply to small farm management? Presentation at the 2006 Oregon Wine Industry Symposium, Corvallis, OR.

Feb. 26 2006 Soil texture by feel. Grape Camp exercise. Prosser, WA.

Feb. 8 2006 Nutrient and grape quality interactions: It's not just nitrogen. Washington Association of Wine Grape Grower's Meeting, Kennewick, WA.

Nov. 18 2005 Precision Viticulture Australian Style. Washington State Grape Society Meeting, Grandview, WA.

Sept. 1 2005 Salinity and Sodicity in Australian Vineyards. Presentation at the Grape Fieldmen's Breakfast, Prosser

July 14 2005 WSGS Field Day: Grape Chlorosis Research, WSU-Prosser Roza Research Farm.

Sept. 29 2004 Organic vs. commercial fertilizers: What is the difference? Fourth Annual Re-use Water Consortium Meeting, Boardman, OR.

Sept. 29 2004 Soluble salts, EC and SAR: What do they mean? Fourth Annual Re-use Water Consortium Meeting, Boardman, OR.

July 20 2004 Grape soil and nutrient management research. Viticulture Certificate Program Practicum, Prosser, WA.

July 1 2004 Cover crops as a source of N for organic grape production. Grape Fieldmen's breakfast, Prosser, WA

June 15 2004 Soil sampling and other new projects. Washington Association of Wine Grape Grower's Viticulture 401; Prosser, WA.

May 19 2004 Vine Nutrition and high pH soils. Washington Association of Wine Grape Grower's Viticulture 101, Prosser, WA.

Mar. 26 2004 Get the real dirt on grape soils. Walla-Walla Community College Research Roundtable, Walla-Walla, WA.

Jan 16 2004 Do Controlled Release Fertilizers fit in with BMPs? Columbia Basin Crop Consultants annual short course, Moses Lake, WA.

Mar. 24 2004 Grape Chlorosis: What we thought we knew and what we know now. National Grape Spring Grower Meeting; Toppenish, WA.

Mar. 23/30 2004 Grape Chlorosis: What we thought we knew and what we know now. National Grape Spring Grower Meeting(s); Grandview, WA.

Feb. 5 2004 Now add nutrients. Washington Association of Wine Grape Growers annual meeting Yakima, WA.

Feb. 5 2004 Session moderator. "Get down and dirty: Vine management from a soiled perspective". Washington Association of Wine Grape Growers annual meeting, Yakima, WA.

Nov 21 2003 Grape chlorosis: Recent efforts and findings. Washington State Grape Society Annual Meeting, Grandview, WA

Nov 1 2003 Vineyard irrigation and nutrition. Second annual Lewis and Clark Regional Grape Symposium, Clarkston, WA

Aug 13 2003 Glacial history and development of soils in Eastern Washington. Presentation as part of the Potato Association of America Agricultural Tour, enroute from Davenport to Spokane, WA.

Jun 4 2003 Feed the Vine, Starve the Nematodes. Joint presentation with Dr. E. Riga. Washington Association of Wine Grape Growers Summer Workshop. Prosser, WA.

Apr 25 2003 Precision Viticulture. Texas Coop Extension Agents Educational Tour. Prosser, WA.

Apr 25 2003 Wine Tasting. Texas Coop Extension Agents Educational Tour. Joint presentation with J. Tarara, Prosser, WA.

Feb 26 2003 What makes a quality soil? Sweet Cherry Shortcourse, Yakima, WA.

Jan 17 2003 Precision Agriculture and Potatoes - Recent Findings. Columbia Basin Crop Consultants Short Course, Moses Lake, WA.

Nov 18 2002 The Nitrogen Cycle and Nitrogen Management Practices for Waste-water Re-use. Agriculture and Water Quality in the Pacific Northwest Workshop #2: Managing organic nutrients, Yakima, WA.

Nov 18 2002 How Phosphorus and Potassium Differ from Nitrogen in Soils and Management. Agriculture and Water Quality in the Pacific Northwest Workshop #2: Managing organic nutrients, Yakima, WA.

Nov 14 2002 Variable Rate Nutrient Management in Grape. Washington State Grape Society, Grandview, WA..

Nov 12 2002 Variable Rate Nutrient Management in Grape Seminar - WSU-Prosser,.

Nov 6 2002 Comparison of nutrient needs between juice and wine grapes. Benton Conservation District Annual Pest Management Seminar, Prosser, WA.

Nov 6 2002 Are plants what they eat? Grandview Rotary, Grandview, WA.

Nov 5 2002 Variable Rate Nutrient Management in Grape.. Soil Science Seminar, Pullman, WA:

Feb 21 2002 Synthetic versus Organic Fertilizers. Presentation at the 2002 PNW Agriculture Chemical Short course, Eugene, OR.

Feb 6 2002 Cool Tools for Growing Great Wine, Grower Panel Moderator, Washington Association of Wine Grape Growers, Yakima, WA. Panel - 2 growers and 2 service providers.

Nov 29 2001 Digital imagery for grape canopy management. Washington State Grape Society Annual Meeting, Grandview, WA.

Oct.31 2001 Physics of Water in Soils: Water behavior in soil; Saturated and unsaturated flow; Water infiltration and movement; Plant available water, soil drainage and water storage. WSU Viticulture Short Course - Soils, nutrients and water, WSU-Tricities.

Oct 31 2001 Nutrient management: Water-nutrient interactions. WSU Viticulture Short Course - Soils, nutrients and water, WSU-Tricities.

Oct 30 2001 Introduction to Soil Properties important for plant growth - Soil texture and structure; Soil depth; Soil pH and cation exchange capacity. WSU Viticulture Short Course - Soils, nutrients and water, WSU-Tricities.

Oct 30 2001 The 16 essential plant nutrients; Non-soil derived nutrients; Soil derived nutrient forms; Soil derived nutrient uptake. WSU Viticulture Short Course - Soils, nutrients and water, WSU-Tricities.

Sept. 19 2001 Precision Agriculture in Irrigated Crops. Leadership Tricities Class VII, Pasco, WA.

Aug. 17 2001 Nutrient, weed, and soil moisture management research efforts in viticulture at WSU-Prosser. Presentation as part of the WSU launch for the new Viticulture and Enology Teaching Program. WSU-Tricities.

June 23 2001 Precision agriculture for nutrient and pest management in irrigated agriculture. Washington League of Women Voters Statewide Conference, Richland, WA.

Feb 1 2001 Alternatives to soil testing. Grape Fieldman=s Breakfast, Prosser, WA.

Jan 19 2001 Measuring and monitoring nitrogen in Columbia Basin crops. Columbia Basin Crop Consultants Short Course, Moses Lake, WA.

Jan 4 2001 Precision agriculture for nutrient and pest management in irrigated crops. Pesticide Recertification Training for the Joint Sunnyside/Roza Irrigation Districts, Sunnyside, WA.

Nov 14 2000 Lime as a soil amendment. Pacific Northwest Vegetable Association Annual Meeting, Pasco, WA.

Nov 7 2000 Pest management in precision ag. Benton Conservation District Annual Pest Management Seminar, Prosser, WA.

Nov 2 2000 Advances in precision ag practices: A soil fertility perspective. Washington State Weeds Conference, Yakima, WA.

Sept 20 2000 Precision farming in irrigated agricultural systems. Leadership Tri-Cities Agriculture Seminar, Kennewick, WA

Mar 28 2000 Nutrient management in peat and upland plantings. Atlantic Cranberry Management Course, Amherst, NS, CANADA.

Mar 27 2000 Nitrogen dynamics in a cranberry bog. Atlantic Cranberry Management Course, Amherst, NS, CANADA.

Mar 27 2000 Plant nutrient management: turning new plantings into producing bogs. Atlantic Cranberry Management Course, Amherst, NS, CANADA.

Feb 15 2000 How variability in soil chemistry affects nutrient availability. Western Precision Agriculture Conference, Pasco, WA.

Jan 25 2000 Growing grapes and the nutrients they need. Wilbur Ellis Wine Grape Production Meeting; Pasco, WA.

Sep 15 1999 Precision farming in irrigated agricultural systems. Leadership Tri-Cities Agriculture Seminar, Pasco, WA.

Jul 8 1999 Fertilizer applications and the movement of fertilizers in the soil profile. Presentation at the Washington State Grape Society=s Summer Tour, Sunnyside, WA

Feb 19 1999 The hows and whys of soil testing. Presentation at the Columbia Basin Potato IPM Workshops; Moses Lake, WA.

Feb 18 1999 The hows and whys of soil testing. Presentation at the Columbia Basin Potato IPM Workshops; 18 February 1999, Richland, WA.

Feb 16	1999	Evaluating soil and petiole testing for effectiveness in predicting potato nitrogen need. Report to the WA State Potato Commission Research Review, Pullman, WA..
Feb 5	1999	Root function and pest resistance. Presentation as part of WSU pesticide recertification training for AgriNorthwest; Hermiston, OR.
Feb 3	1999	Precision farming in potatoes: A case study. Presentation at the Washington Potato Conference, Moses Lake, WA; group presentation with R. Evans, D. Nerpel, L. Denver, W. Rehberg, and M. Hattendorf.
Jan 13	1999	How potato plants use nutrients. Presentation at the Columbia Basin Potato Workshops; Moses Lake, WA.
Jan 14	1999	How potato plants use nutrients. Presentation at the Columbia Basin Potato Workshops; Moses Lake, WA.
Sep 16	1998	Precision farming in irrigated agricultural systems, Leadership Tri-Cities Agriculture Seminar, Pasco, WA
Aug 6	1998	Reducing surface and ground water contamination in irrigated potato fields. Field side presentation at USDA Paterson Research Farm made for the WA Potato Industry Water Issues Tour & Symposium (for government agencies) conducted by the WA State Potato Commission. Paterson, WA.
Feb 24	1998	Cover Crop Management as a Nutrient Conservation Strategy in Washington, Simplot Crop Advisor Inservice Training, Moxee, WA.
Feb 11	1998	A team approach to site-specific management in an irrigated potato rotation, Western Precision Ag Conference, Boise, ID- group presentation, coordinated by Joan Davenport; presented by Joan Davenport (Washington State University), Mary Hattendorf (Washington State University), Dave Nerpel (Ag Chem Equipment Corp.), and Wade Rehberg (Lamb Weston, Inc.).
Jan 21	1998	Phosphorus and potassium fertilizer studies on potatoes, 1998 Columbia Basin Potato Workshop, Moses Lake, WA.
Jan 20	1998	Phosphorus and potassium fertilizer studies on potatoes, 1998 Columbia Basin Potato Workshop, Pasco, WA.
Dec 4	1997	Promises and pitfalls of precision agriculture - P and K fertilizer studies in potato, Columbia Basin Crop Consultants, Moses Lake, WA.
Nov 14	1997	Soil fertility considerations for precision farming, WPCA Ann. Mtg., Yakima, WA.
Sep 17	1997	Precision farming in irrigated agricultural systems, Leadership Tri-Cities Agriculture Seminar, Pasco, WA.
July 25	1997	Nitrogen release by cranberry soils, WSU-Long Beach Cranberry Field Day.