

# CURRICULUM VITAE

## NAME

Caspari, Horst W

## ADDRESS

## PHONE

(970) 434-3264

## EDUCATION

1993 Ph D, Rheinische Friedrich-Wilhelms-Universität Bonn

1989 MS, Rheinische Friedrich-Wilhelms-Universität Bonn

## ACADEMIC POSITIONS

1992 - 1993 Tutor, Massey University.

## OTHER POSITIONS

July 31, 2000 - Present Associate Professor & State Viticulturist, Colorado State University.

1995 - 2000 Scientist, The Horticulture and Food Research Institute of New Zealand.

1994 Post- Doctoral Fellow, The Horticulture and Food Research Institute of New Zealand.

1990 - 1993 Visiting Scientist, Massey University.

1989 Research Technician, Rheinische Friedrich- Wilhelms- Universität Bonn.

## PUBLISHED WORKS

### **Refereed Journal Articles**

(2012). Total soil water content accounts for augmented ABA leaf concentration and stomatal regulation of split-rooted apple trees during heterogeneous soil drying. *J Exp Bot*, 63(14), 5365-5376.

(2008). The use of sap flow measurements for scheduling irrigation in olive, apple and Asian pear trees and in grapevines. *Plant Soil*, 305, 91-104.

(2006). Partial rootzone drying and deficit irrigation of 'Fuji' apples in a semi-arid climate. *Irrigation Sci*, 24, 85-99.

(2004). Partial rootzone drying - A new deficit irrigation strategy for apple? *Acta Hort*, 24, 93-100.

(2004). Partial rootzone drying and deficit irrigation of 'Gala' apples in a semi-arid climate. *Acta Hort*, 24, 197-204.

(2004). Progress in the development of partial rootzone drying of apple trees. *Acta Hort*, 24, 125-132.

(1994). Stomatal Conductance of Lysimeter-Grown Asian Pear Trees before and during Soil-Moisture Deficits. *J Am Soc Hort Sci*, 119, 1261-1264.

- (2013). *Performance of cool-climate grape varieties in Delta County.* <http://www.colostate.edu/programs/wcrc/pubs/viticulture/Grape%20variety%20evaluation%20at%20Rogers%20Mesapdf>.
- (2012). *2011 Grower Survey.* [www.colostate.edu/programs/wcrc/pubs/viticulture/Survey2011pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/Survey2011pdf).
- (2012). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Orchard Mesa near Grand Junction, Colorado, 2011/12 (9 updates during 2012).* [www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardiness11pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardiness11pdf).
- (2012). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Orchard Mesa near Grand Junction, Colorado, 2012/13 (9 updates during 2012).* [www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardiness12pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardiness12pdf).
- (2012). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Rogers Mesa near Hotchkiss, Colorado, 2011/12 (6 updates during 2012).* [www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm11pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm11pdf).
- (2012). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Rogers Mesa near Hotchkiss, Colorado, 2012/13 (3 updates during 2012).* [www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm12pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm12pdf).
- (2012). *Performance of cool-climate grape varieties in Delta County.* [www.colostate.edu/programs/wcrc/pubs/viticulture/Grape variety evaluation at Rogers Mesapdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/Grape%20variety%20evaluation%20at%20Rogers%20Mesapdf).
- (2011). *2010 Grower Survey.* [www.colostate.edu/programs/wcrc/pubs/viticulture/Survey2010pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/Survey2010pdf).
- (2011). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Orchard Mesa near Grand Junction, Colorado, 2010/11 (14 updates during 2011).* [www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardiness10pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardiness10pdf).
- (2011). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Orchard Mesa near Grand Junction, Colorado, 2011/12 (10 updates during 2011).* [www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardiness11pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardiness11pdf).
- (2011). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Rogers Mesa near Hotchkiss, Colorado, 2010/11 (7 updates during 2011).* [www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm10pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm10pdf).
- (2011). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Rogers Mesa near Hotchkiss, Colorado, 2011/12 (3 updates during 2011).* [www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm11pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm11pdf).
- (2011). *Performance of cool-climate grape varieties in Delta County.* [www.colostate.edu/programs/wcrc/pubs/viticulture/Grape variety evaluation at Rogers Mesapdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/Grape%20variety%20evaluation%20at%20Rogers%20Mesapdf).
- (2010). *2009 Grower Survey.* [www.colostate.edu/programs/wcrc/pubs/viticulture/Survey2009pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/Survey2009pdf).
- (2010). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Orchard Mesa near Grand Junction, Colorado, 2010/11 (10 updates during 2010).* [www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardiness10pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardiness10pdf).

- (2010). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Rogers Mesa near Hotchkiss, Colorado, 2009/10 (7 updates during 2010)*. [www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm09.pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm09.pdf).
- (2010). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Rogers Mesa near Hotchkiss, Colorado, 2010/11 (5 updates during 2010)*. [www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm10.pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/coldhardinessrm10.pdf).
- (2010). *Fruit bud coldhardiness, western Colorado, 2010/11 (2 updates during 2010)*. [www.colostate.edu/programs/wcrc/pubs/viticulture/fruitcoldhardiness10.pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/fruitcoldhardiness10.pdf).
- (2010). *Grape variety evaluation at Rogers Mesa*. [www.colostate.edu/programs/wcrc/pubs/viticulture/Grape variety evaluation at Rogers Mesa.pdf](http://www.colostate.edu/programs/wcrc/pubs/viticulture/Grape%20variety%20evaluation%20at%20Rogers%20Mesa.pdf).
- (2010). *The cost of growing wine grapes in Western Colorado*. [www.coopext.colostate.edu/WR/costofgrowinggrapes.pdf](http://www.coopext.colostate.edu/WR/costofgrowinggrapes.pdf).

## Web Publication

- Caspari, H. W., Lumpkin, C. (2014). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Orchard Mesa near Grand Junction, Colorado, 2013/14*. CSU WCRC web page. [webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/coldhardiness13-14.pdf](http://webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/coldhardiness13-14.pdf)
- Caspari, H. W., Lumpkin, C. (2014). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Rogers Mesa near Hotchkiss, Colorado, 2013/14*. CSU WCRC web page. [webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/coldhardinessrm13-14.pdf](http://webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/coldhardinessrm13-14.pdf)
- Caspari, H. W., Lumpkin, C., Neubauer, E. H., Atucha, A. F. (2014). *Fruit bud coldhardiness, western Colorado, 2013/14*. CSU WCRC web page. [webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/fruit bud coldhardiness 2013-2014.pdf](http://webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/fruit%20bud%20coldhardiness%202013-2014.pdf)
- Caspari, H. W. (2014). *Grape variety evaluation at Rogers Mesa, 2004-2013*. CSU WCRC web page. [webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/Grape%20variety%20evaluation%20at%20Rogers%20Mesa,%202004-2013.pdf](http://webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/Grape%20variety%20evaluation%20at%20Rogers%20Mesa,%202004-2013.pdf)
- Caspari, H. W. (2013). *2012 Grower Survey*. CSU WCRC web page.
- Caspari, H. W., Montano, A. L. (2013). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Orchard Mesa near Grand Junction, Colorado, 2012/13*. CSU WCRC web page. [webdoc.agsci.colostate.edu/aes/wcrc/publications/coldhardiness13.pdf](http://webdoc.agsci.colostate.edu/aes/wcrc/publications/coldhardiness13.pdf)
- Caspari, H. W., Montano, A. L. (2013). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Rogers Mesa near Hotchkiss, Colorado, 2012/13*. CSU WCRC web page. [webdoc.agsci.colostate.edu/aes/wcrc/publications/coldhardinessrm13.pdf](http://webdoc.agsci.colostate.edu/aes/wcrc/publications/coldhardinessrm13.pdf)
- Caspari, H. W., Lumpkin, C. (2013). *Cold hardiness of grapevine buds grown at the Western Colorado Research Center - Rogers Mesa near Hotchkiss, Colorado, 2013/14*. CSU WCRC web page. [webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/coldhardinessrm13-14.pdf](http://webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/coldhardinessrm13-14.pdf)
- Caspari, H. W., Montano, A. L., Neubauer, E. H., Pokharel, R. R. (2013). *Fruit bud coldhardiness, western Colorado, 2012/13*. CSU WCRC web page.
- Caspari, H. W., Lumpkin, C., Neubauer, E. H., Atucha, A. F. (2013). *Fruit bud coldhardiness, western Colorado, 2013/14*. CSU WCRC web page. [webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/fruit bud coldhardiness 2013-2014.pdf](http://webdoc.agsci.colostate.edu/aes/wcrc/techbulletins/fruit%20bud%20coldhardiness%202013-2014.pdf)

2013-2014.pdf

Caspari, H. W. (2013). *Performance of cool-climate grape varieties in Delta County*. CSU WCRC web page.

Caspari, H. W. (2013). *Performance of cool-climate grape varieties in Delta County*. CSU WCRC web page.

**PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS**

November 19, 2014, "Growing Grape Vines", Garden Talk, Grand Junction Parks & Recreation, (Presenter) Caspari, H. W., Grand Junction.

June 19, 2014, "Retraining cold-injured vines - Vineyard Field Visit", Grand Junction.

March 7, 2014, "B2C2: A simple, low cost pruning/trellis adjustment to reduce yield losses due to cold injury", 33rd Annual New Mexico Vine and Wine Conference, New Mexico Wine Gowers Association, (Presenter) Caspari, H. W., Albuquerque.

March 7, 2014, "Understanding cold temperature injury, and responding accordingly", 33rd Annual New Mexico Vine and Wine Conference, New Mexico Wine Gowers Association, (Presenter) Caspari, H. W., Albuquerque.

February 26, 2014, "Grape pruning workshop – bilingual (English, Spanish) workshop for vineyard crews", Palisade.

January 16, 2014, "2013 Colorado Grape Grower Survey", VinCO / Western Colorado Horticultural Society Annual Meeting, CAVE, (Presenter) Caspari, H. W., Grand Junction.

January 16, 2014, "Performance of cool-climate grape varieties in Delta County", VinCO / Western Colorado Horticultural Society Annual Meeting, CAVE, (Presenter) Caspari, H. W., Grand Junction.

January 16, 2014, "Quadrilateral versus bilateral VSP – an alternative option to maintain yield?", VinCO / Western Colorado Horticultural Society Annual Meeting, CAVE, (Presenter) Caspari, H. W., Grand Junction.

January 15, 2014, "Performance of cool-climate grape varieties in Delta County", VinCO / Western Colorado Horticultural Society Annual Meeting, CAVE, (Presenter) Caspari, H. W., Grand Junction.

January 15, 2014, "Quadrilateral versus bilateral VSP – an alternative option to maintain yield?", VinCO / Western Colorado Horticultural Society Annual Meeting, CAVE, (Presenter) Caspari, H. W., Grand Junction.

November 9, 2013, "Quadrilateral versus bilateral VSP – an alternative option to maintain yield?", Fall Workshop of University of Nebraska Viticulture Program, University of Nebraska, (Presenter) Caspari, H. W., Lincoln, NE.

August 6, 2013, "Vineyard Field Visit", Hotchkiss.

July 24, 2013, "Vineyard Field Visit", Grand Junction.

January 28, 2013, "Financial Planning: Where are you in your plan?", Tree Fruit for Beginners Workshop, Grand Junction.

January 28, 2013, "Irrigation Management", Tree Fruit for Beginners Workshop, Grand Junction.

January 17, 2013, "Performance of cool-climate grape varieties in Delta County", VinCO / Western Colorado Horticultural Society Annual Meeting, CAVE, (Presenter) Caspari, H. W., Grand Junction.

January 17, 2013, "Quadrilateral versus bilateral VSP – an alternative option to maintain yield?", VinCO / Western Colorado Horticultural Society Annual Meeting, CAVE, (Presenter) Caspari, H. W., Grand Junction.

January 17, 2013, "Viticulture update winter 2012/13", VinCO / Western Colorado Horticultural Society Annual Meeting, CAVE, (Presenter) Caspari, H. W., Grand Junction.

January 16, 2013, "2012 Grower Survey– VinCO / WesternColorado Horticultural Society AnnualMeeting, Grand Junction, CO, 18 Jan 2012(~60)", (Presenter) Caspari, H. W., Grand Junction.

January 16, 2013, "2013 Grower Survey– VinCO / WesternColorado Horticultural Society AnnualMeeting, Grand Junction, CO, 18 Jan 2012(~60)", (Presenter) Caspari, H. W., Grand Junction.

January 16, 2013, "Quadrilateral versus bilateral VSP – an alternative option to maintain yield?", VinCO / Western Colorado Horticultural Society Annual Meeting, CAVE, (Presenter) Caspari, H. W., Grand Junction.

January 14, 2013, "Financial Planning: Where are you in your plan?", Tree Fruit for Beginners Workshop, Grand Junction.

January 14, 2013, "Irrigation Management", Tree Fruit for Beginners Workshop, Grand Junction.

2012, "2011 Grower Survey– VinCO / Western Colorado Horticultural Society Annual Meeting, Grand Junction, CO, 18 Jan 2012 (~60)".

2012, "Cold hardiness of grapevine buds - 15th Nebraska Wine and Grape Forum, Kearney, NE, 2 Mar 2012 (~50)".

2012, "Economics of grape production – 2012 Small Acreage seminar, Castle Rock, CO, 20 Oct 2012 (~75)".

2012, "Evaluating grape bud damage prior to pruning - 15th Nebraska Wine and Grape Forum, Kearney, NE, 2 Mar 2012 (~50)".

2012, "Grape growing – Principles and Practices, - Workshop 15th Nebraska Wine and Grape Forum, Kearney, NE, 1 Mar 2012 (~50)".

2012, "Growing grapevines – Introduction of Grape Growing seminar, 2012 Colorado Mountain Winefest, Grand Junction, CO, 16 Sep 2012 (10) Organiser, multiple presentations".

2012, "Performance of cool-climate grape varieties in Delta County – VinCO / Western Colorado Horticultural Society Annual Meeting, Grand Junction, CO, 19 Jan 2012 (~40)".

2012, "Quadrilateral versus bilateral VSP – an alternative option to maintain yield? - 15th Nebraska Wine and Grape Forum, Kearney, NE, 2 Mar 2012 (~50)".

2012, "Retraining and “spare parts” pruning of grape vines – VinCO / Western Colorado Horticultural Society Annual Meeting, Grand Junction, CO, 19 Jan 2012 (~40)".

2012, "Retraining and “spare parts” pruning of grape vines, 15th Nebraska Wine and Grape Forum, Kearney, NE, 2 Mar 2012 (~50)".

2012, "The Colorado grape industry – lessons for Nebraska? - Viticulture keynote address, 15th Nebraska Wine and Grape Forum, Kearney, NE, 2 Mar 2012 (~125)".

2012, "The Colorado terroir – Drink Local Wine conference, Denver, CO, 28 Apr 2012 (~60)".

2012, "Training and retraining grape vines – VinCO / Western Colorado Horticultural Society Annual Meeting, Grand Junction, CO, 19 Jan 2012 (~40)".

2011, "2010 Grower Survey– VinCO / Western Colorado Horticultural Society Annual Meeting, 20 Jan 2011, Grand Junction (~45)".

2011, "Performance of cool-climate grape varieties in Delta County – VinCO / Western Colorado Horticultural Society Annual Meeting, 20 Jan 2011, Grand Junction (~30)".

2011, "The challenges and (small) successes of growing wine grapes in Colorado, Seminar Series, Bioagricultural Science and Pest Management, Colorado State University, Fort Collins, 9 Nov 2011".

2011, "Water relations and irrigation management – VinCO / Western Colorado Horticultural Society Annual Meeting, 19 Jan 2011, Grand Junction (~30)".

2010, "2009 Grower Survey - CAVE meeting, 29 May 2010, Palisade, CO (~50)".

2010, "Colorado Grape and Wine Industry CSU Extension Forum, 29 Sep 2010, Fort

Collins, CO (~30)".

2010, "Grape/wine workshop, Cortez, CO, 26 Aug 2010 (~20 participants)".

2010, "Performance of cool-climate grape varieties in Delta County New grape variety round table and wine blending seminar, 10 Sep 2010, Hotchkiss, CO (8)".

2010, "Performance of cool-climate grape varieties in Delta County Western Colorado Horticultural Society Annual Meeting, GJ, CO, 20 Jan 2010 (~100)".

2010, "The vineyard goose that didn't lay golden eggs - Western Colorado Horticultural Society Annual Meeting, GJ, CO, 20 Jan 2010 (~100)".

2010, "Viticulture update winter 2009/10 CAVE meeting and special workshop on dealing with cold injury, Palisade, CO, 20 Feb 2010 (~80)".

2010, "Water relations and irrigation management Fruit growing for Beginners workshop, GJ, CO, 18 Jan 2010 (~35 participants)".

## TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2015	Fall	HORT462 - Viticulture Practices in Grape Production	3	10
2015	Spring	HORT699 - Thesis	18	3
2014	Spring	HORT698 - Research	18	10
2013	Fall	HORT462 - Viticulture Practices in Grape Production	3	19
2011	Fall	HORT462 - Viticulture Practices in Grape Production	3	13
2009	Fall	HORT462 - Viticulture Practices in Grape Production	3	8
2008	Spring	HORT462 - Viticulture Practices in Grape Production	3	13

## Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2013	Fall	HORT450C - Small Fruit Production	1	Distance

## COMMITTEES

(2012).

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(2011).

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Search Committee, (August 2014 - 2015).

Search Committee, (June 2013 - September 2013).

Search Committee, (2012 - July 2013).

Search Committee, (2012 - January 15, 2013).

(2012).

(2012).

(2011).

(2011).

## **PROFESSIONAL AFFILIATIONS AND ACTIVITIES**

American Society for Enology and Viticulture. (2001 - 2013).

International Society for Horticultural Science. (1996 - 2013).

Acta Horticulturae. (2012 - Present).

Irrigation Science. (2012 - Present).

Member, Search Committee for Research Associate I. (2012 - Present).

CSU, Grand Junction, CO. (2011 - Present).

CSU, Parker, CO. (2011 - Present).

CSU-WCRC, Grand Junction, CO. (2011 - Present).

CSU-WCRC, Grand Junction, CO. (2011 - Present).

CSU-WCRC, Grand Junction, CO. (2011 - Present).

CSU-WCRC, Hotchkiss, CO. (2011 - Present).



Member, USDA Viticulture Consortium West. (2011 - Present).

American Journal of Enology and Viticulture. (2010 - Present).

CAVE, Palisade, CO. (2010 - Present).

CSU, GJ, CO. (2010 - Present).

CSU, Cortez, CO. (2010 - Present).

CSU, GJ, CO. (2010 - Present).

Member, USDA Viticulture Consortium West. (2010 - Present).

Attendee, Meeting, Colorado Wine Industry Development Board, various, CO. (July 2000 - Present).

Reviewer, Journal Article, Australian Journal of Grape and Wine Research. (2014).

Reviewer, Journal Article, HortTechnology. (2014).

Reviewer, Journal Article, New Zealand Journal of Crop and Horticultural Science. (2014).

Member, American Society for Enology and Viticulture. (2001 - 2014).

Reviewer, Journal Article, American Journal of Enology and Viticulture. (June 2013 - December 2013).

Journal of the Science of Food and Agriculture. (2013).

Member, International Society for Horticultural Science. (1996 - 2013).

Organised/presented Vineyard Field Visit – Diers Vineyard, Palisade, CO, 12 Jun 2012 (~45). (2012).

Organised/presented Vineyard Field Visit – Plum Creek Vineyard, Palisade, CO, 24 Jul 2012 (~35). (2012).

Organised/presented Vineyard Field Visit – Western Colorado Research Center, Grand Junction, CO, 15 May 2012 (~35). (2012).

Organised/presented Vineyard Field Visit – Western Colorado Research Center, Grand Junction, CO, 21 Aug 2012 (~25). (2012).

Pruning grapevines: Master Gardener pruning workshop, WCRC, 17 Mar 2012 (~100). (2012).

Wine tasting with consumers - 10th Annual Denver Fall Wine Tasting, Denver, CO, 20 Oct 2012 (>100). (2012).

Grapes to Glass, CSU Alumni Event at Garfield Estates winery, Palisade, CO, 28 Jul 2011 (~40 participants). (2011).

Pruning grapevines: Master Gardener pruning workshop, WCRC, 19 Mar 2011 (~80). (2011).

Pruning grapevines: Public pruning workshop, WCRC, 12 Mar 2011 (~25). (2011).

Pruning grapevines: Public pruning workshop, WCRC, 26 Mar 2012 (~25). (2011).

Member, Search Committee for faculty position. (2011).

Wine tasting/education with consumers, 20th Annual Colorado Mountain Winefest, 17 Sep 2011 (91). (2011).

Grapes to Glass, CSU Alumni Event at Garfield Estates winery, Palisade , CO, 21 Jul 2010 (~40 participants). (2010).

Pruning grapevines Master Gardener pruning workshop, 20 Mar 2010 (~80 participants). (2010).

Pruning grapevines Public pruning workshop, 6 Mar 2010 (25 participants). (2010).

Wine tasting with consumers, 19th Annual Colorado Mountain Winefest, Palisade, CO, 18 Sep 2010. (2010).

**OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH**

Colorado Wine Industry Development Board.

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