

TABLES AND FIGURES:

Table 1: NE-1020 Participants

Participant	State - Institution	Email	Area of Expertise
Rhonda J Smith	California Cooperative Extension	rhsmith@ucdavis.edu	viticulture, Integrated Pest Management (IPM)
Deborah Golino	California - Davis : University of California, Davis (CALB)	dagolino@ucdavis.edu	virology, National Clean Plant Network
Horst Caspari	Colorado - Colorado State University (COL)	Horst.Caspari@ColoState.EDU	viticulture
Stephen D Menke	Colorado - Colorado State University (COL)	stephen.menke@colostate.edu	enology
Francis J Ferrandino	Connecticut - New Haven (CONH)	Francis.Ferrandino@ct.gov	plant pathology, applied physics, IPM
Alice Wise	New York- Cornell Cooperative Extension	avw1@cornell.edu	viticulture, IPM
Bruce P Bordelon	Indiana - Purdue University (IND)	bordelon@purdue.edu	small fruit, viticulture
Diana Cochran	Iowa - Iowa State University (IOW)	dianac@iastate.edu	viticulture
Gail Nonnecke	Iowa - Iowa State University (IOW)	nonnecke@iastate.edu	viticulture
Joseph Fiola	Maryland - University of Maryland (MD.)	jfiola@umd.edu	small fruit, viticulture
Elsa Petit	Massachusetts - University of Massachusetts (MAS)	epetit@umass.edu	viticulture, plant pathology
Sonia G Schloemann	Massachusetts Cooperative Extension (MAS)	sgs@umext.umass.edu	small fruit, viticulture
Annemiek Schilder	Michigan - Michigan State University (MICH)	schilder@msu.edu	plant pathology, IPM
Paolo Sabbatini	Michigan - Michigan State University (MICH)	sabbatin@msu.edu	viticulture, plant physiology
Rufus Isaacs	Michigan - Michigan State University (MICH)	isaacsr@msu.edu	entomology, IPM
Matthew Clark	Minnesota - University of Minnesota (MIN)	clark776@umn.edu	breeding, genetics
Walter Gassmann	Missouri - University of Missouri (MO.)	gasmannw@missouri.edu	genetics, interdisciplinary plant science
Paul Read	Nebraska - University of Nebraska (NEB)	pread1@unl.edu	viticulture
Grant Cramer	Nevada - University of Nevada (NEV)	cramer@unr.edu	viticulture, plant physiology
Hemant Gohil	New Jersey - Rutgers University (NJ.)	gohil@njaes.rutgers.edu	viticulture, plant physiology
Daniel Ward	New Jersey - Rutgers University (NJ.)	dward@njaes.rutgers.edu	viticulture, applied biostatistics
Peter Nitzsche	New Jersey - Rutgers University (NJ.)	nitzsche@njaes.rutgers.edu	extension
Gary C. Pavlis	New Jersey Cooperative Extension (NJ.)	pavlis@njaes.rutgers.edu	small fruit, viticulture
Bernd Maier	New Mexico Cooperative Extension (NM.)	bemaier@nmsu.edu	viticulture
Andrew J. Landers	New York -Geneva : Cornell University (NY.G)	ajl31@cornell.edu	agricultural engineering, pesticide application systems
Anna Katherine Mansfield	New York -Geneva : Cornell University (NY.G)	akm87@cornell.edu	enology
Participant	State - Institution	Email	Area of Expertise

Bruce I. Reisch	New York -Geneva : Cornell University (NY.G)	bir1@cornell.edu	breeding, genetics
Gregory M. Loeb	New York -Geneva : Cornell University (NY.G)	gme1@cornell.edu	entomology, IPM
Justine E. VandenHeuvel	New York -Geneva : Cornell University (NY.G)	jev32@cornell.edu	viticulture
Terence R Bates	New York -Geneva : Cornell University (NY.G)	trb7@cornell.edu	viticulture, IPM
Thomas Burr	New York -Geneva : Cornell University (NY.G)	tjb1@cornell.edu	virology, plant pathology, IPM
Tim Martinson	New York -Geneva : Cornell University (NY.G)	tem2@cornell.edu	viticulture, extension
Wayne F. Wilcox	New York -Geneva : Cornell University (NY.G)	wfw1@cornell.edu	plant pathology, IPM
Harlene Hatterman-Valenti	North Dakota - North Dakota State University (ND.)	H.Hatterman.Valenti@ndsu.edu	genetics, viticulture, small fruit
Imed Dami	Ohio - Ohio State University (OHO)	dami.1@osu.edu	viticulture, plant physiology
Kathleen Kelley	Pennsylvania - Pennsylvania State (PEN)	kmk17@psu.edu	horticultural and wine marketing
Michela Centinari	Pennsylvania - Pennsylvania State (PEN)	mzc22@psu.edu	viticulture, plant physiology
Robert Crassweller	Pennsylvania - Pennsylvania State (PEN)	rnc7@psu.edu	viticulture, pomology
Anne Fennell	South Dakota State University (SD)	Anne.Fennell@sdstate.edu	genetics, plant physiology, viticulture
Terence L Bradshaw	Vermont - University of Vermont (VT.)	tbradsha@uvm.edu	viticulture, IPM
Sadanand Dhekney	Wyoming - University of Wyoming (WYO)	sdhekney@uwyo.edu	genetics, breeding, viticulture

Table 2: Funding (exclusive of SCRI projects) received to-date for NE-1020 activities.

State	PI Name	Federal Funds	State and Local Funds	Private Funds	Unfunded Expenditures	Total
CO	Horst Caspari	13,279	30,000	6,500	0	CO
CT	Francis J. Ferrandino	123,000	21,000	4,000	0	CT
IN	Bruce Bordelon	12,000	90,000	0	560	IN
MI	Paolo Sabbatini	36,200	0	0	4,270	MI
MN	Jim Luby	19,485	15,000	0	0	MN
NC	Sara Spayd	46,920	50,500	0	0	NC
NJ	Daniel Ward	116,000	50,000	10,000	0	NJ
ND	Harlene Hatterman-Valenti	126,000	10,000	0	0	ND
NE	Paul Read	23,025	52,500	0	0	NE
OH	Imed Dami	183,453	22,000	0	0	OH
PA	Michela Centinari	58,455	105,000	0	0	PA
SD	Anne Fennell	14,750	28,500	20,000	0	SD
VT	Terence Bradshaw	536,258	47,000	0	0	VT
WY	Sadanand Dhekney	5,000	0	0	0	WY
Total		\$1,352,825	\$521,500	\$55,500	\$4,830	\$1,934,655

Table 3. Acreage and wineries in NE-1020 participating states, 2007-2014

State	PI Name	Grape Acreage 2005	Grape Acreage 2014	Wineries 2005	Wineries 2014
CO	Horst Caspari	800	1,000	80	120
CT	Francis J. Ferrandino	237	389	19	32
IN	Bruce Bordelon	500	650	55	80
MA	Elsa Petit	76	100	22	55
MI	Paolo Sabbatini	1,480	2,490	50	120
MO	Walter Gassmann	1,200	1,700	50	128
NC	Sara Spayd	1,300	2,300	52	160
NJ	Daniel Ward	790	1260	34	54
ND	Harlene Hatterman-Valenti	3	45	2	10
NE	Paul Read	300	550	19	28
NY	Martinson/Vanden Heuvel	32,900	31,803	168	400
OH	Imed Dami	2,200	1,900	90	215
PA	Michela Centinari	1,800	3,300	104	160
SD	Anne Fennell	40	200	9	18
VT	Terence Bradshaw	150	250	7	22
Total		43,700	47,837	761	1,482

Table 4. Established NE-1020 Plantings

PI	Site	Est. yr.(a)	Sum clim. (b)	Dorm. clim. (c)	Sentinel cultivars
Horst Caspari	Grand Junction, CO	2008	Hot	Cold	Cab Sauv, Merlot
	Hotchkiss, CO	2008	Warm	Cold	Chambourcin, Vidal
Francis J. Ferrandino	Hamden, CT	2007	Warm	Cold	Pinot noir, Cab Franc, Cab Sauv, Merlot, Chambourcin, Vidal
	Windsor CT	2007	Warm	Cold	Frontenac, St Croix, Chambourcin, Vidal
Bruce Bordelon	Vincennes, IN	2008	Warm	Cold	Chambourcin, Vidal, Cab franc, Cab Sauv
	Lafayette, IN	2008	Warm	Very Cold	Chambourcin, Vidal, Frontenac, St. Croix
Elsa Petit	Belchertown, MA	2008	Cool	Cold	Chambourcin, Vidal, Frontenac, St. Croix
Paolo Sabbatini	Traverse City, MI	2008	Cool	Cold	Pinot noir and Cab franc, Frontenac St Croix, Vidal and Chambourcin
	Benton Harbor, MI	2008	Cool	Cold	Merlot, Cab Sauv, Frontenac St Croix, Vidal and Chambourcin
Walter Gassman	New Franklin, MO	2008	Hot	Cold	Chambourcin, Vidal
Sara Spayd	Dobson, NC	2007	Hot	Mild	Cab Sauv, Merlot
Daniel Ward	Bridgeton, NJ	2008	Warm	Cold	Chambourcin, Vidal, Cab franc, Cab Sauv
Harlene Hatterman- Valenti	Wyndmere, ND	2010	Cool	Very Cold	Frontenac and St. Croix
Paul Read	Peru, NE	2008	Warm	Cold	Frontenac, Saint Croix, Chambourcin and Vidal Blanc
	Eagle, NE	2008	Warm	Cool	Chambourcin, Saint Croix, Frontenac and Vidal Blanc
Imed Dami	Wooster, OH	2008	Warm	Cool	Cab Sauv and Merlot
	Kingsville, OH	2008	Cool	Cold	Cab franc and Pinot noir
Michela Centinari	North East, PA	2008	Cool	Cold	Cab franc; Chambourcin; Pinot noir; Vidal
	Biglerville, PA	2008	Warm	Cold	Cab franc, Cab Sauv, Merlot, Pinot noir
Anne Fennell	Brookings, SD	2008	Cool	Very Cold	Frontenac, St. Croix
Terence Bradshaw	S. Burlington, VT	2007	Cool	Cool	Frontenac, St Croix
Sadanand Dhekney	Sheridan WY, Powell, WY	2013	Cool	Very Cold	Frontenac, Marquette, St. Croix

(a) year of establishment

(b) climate zone during growing season

(c) climate zone during dormancy

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3. Berkett, L.P., et al. *Disease evaluation of selected cold climate wine grape cultivars in Vermont, USA.* in *IOBC-WPRS Working Group Meeting on "Integrated Protection and Production in Viticulture."*. 2013. Ascona, Switzerland: IOBC/WPRS Bulletin 24(5):393-400.
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Appendix 1. Publications and Outputs from Complementary SCRI Projects

Improved grape and wine quality in a challenging environment: An Eastern US model for sustainability and economic vitality. USDA SCRI 2010-51181-21599.

1. Type: Journal Articles Status: Submitted Year Published: 2016 Citation: Hickey, Cain C., T. A. Hatch, J. Stallings, and T.K. Wolf. 2016. Multi-season effects of rootstock and intra-row cover crops on vine growth and fruit composition of Cabernet Sauvignon, Amer. J. Enol. Vitic.
2. Type: Journal Articles Status: Submitted Year Published: 2016 Citation: Karl, A.D., I.M. Merwin, M.G. Brown, R. Hervieux, and J.E. Vanden Heuvel. Impact of Under-Vine Management on Vine Growth, Yield, Fruit Composition, and Wine Sensory Analyses of Cabernet franc. Submitted to Amer. J. Enol. Vitic.
3. Type: Journal Articles Status: Submitted Year Published: 2016 Citation: Jordan, L.M., T.J. Bjorkman, and J.E. Vanden Heuvel. Using under-vine cover crops did not impact vine growth or fruit composition of mature cool climate ‘Riesling’ grapevines. Submitted to HortTechnology, August 2015
4. Type: Journal Articles Status: Accepted Year Published: 2016 Citation: Klodd, A.E., E.M. Eissenstat, T.K. Wolf, and M. Centinari. 2015. Coping with cover crop competition in mature grapevines. Plant and Soil. Published online, November 2015: DOI 10.1007/s11104-015-2748-2.
5. Type: Theses/Dissertations Status: Published Year Published: 2012 Citation: Mr. Cain Hickey. 2012. ‘Vines of different capacity and water status alter the sensory perception of Cabernet Sauvignon wines. MSc thesis, Virginia Tech, Blacksburg, VA.
6. Type: Conference Papers and Presentations Status: Other Year Published: 2015 Citation: Vanden Heuvel, J.E. 2015. Impacts of vineyard management practices on water quality. NY Chapter of the American Society of Landscape Architects Annual Meeting, June 12, 2015.
7. Type: Conference Papers and Presentations Status: Other Year Published: 2015 Citation: Vanden Heuvel, J.E. 2015. Under-vine cover crops for vinifera vineyards. BEV NY, Feb 28, 2015.
8. Type: Conference Papers and Presentations Status: Other Year Published: 2015 Citation: Karl, A., Vanden Heuvel, J.E., S. Lerch, R. Sirianni, M. Brown, and I. Merwin. 2015. Under-trellis cover crops as alternatives to herbicides. NY Fruit and Vegetable Expo, January 21, 2015.
9. Type: Conference Papers and Presentations Status: Other Year Published: 2014 Citation: Vanden Heuvel, J.E., S. Lerch, R. Sirianni, A.Karl, M. Brown, and I. Merwin. 2014. Impact of under-vine cover crops in Finger Lakes vineyards. Business, Enology, and Viticulture Conference, February 1, 2014.
10. Type: Conference Papers and Presentations Status: Other Year Published: 2014 Citation: Vanden Heuvel, J.E., S. Lerch, R. Sirianni, A.Karl, M. Brown, and I. Merwin. 2014. Impact of under-vine cover crops in Finger Lakes vineyards. Virginia Vintners Association, February 1, 2014.
11. Type: Conference Papers and Presentations Status: Other Year Published: 2014 Citation: Vanden Heuvel, J.E., S. Lerch, R. Sirianni, A.Karl, M. Brown, and I. Merwin. 2014. Impact of under-vine cover crops in Finger Lakes vineyards. North Carolina Winegrower’s Association,

February 2, 2014.

12. Type: Other Status: Accepted Year Published: 2015 Citation: Moss, James R., Amanda C. Stewart, and Tony K. Wolf. 2015. Evaluation of nitrogen management schemes for intensively cover cropped vineyards. Abstract of paper presented at American Society of Enology and Viticulture 2015 annual meeting., Portland OR, June 2015.

13. Type: Journal Articles Status: Accepted Year Published: 2015 Citation: Dami, I., S. Li, and Y. Zhang. 2015. Evaluation of primary bud freezing tolerance of twenty three wine grape cultivars new to Eastern U.S. *Amer. J. Enol. Vitic.* (in press).

14. Type: Conference Papers and Presentations Status: Other Year Published: 2013 Citation: Dami, I.E. and Y. Zhang. 2013. Increased freezing tolerance of grapevines linked to abscisic acid-induced bud desiccation and sugar accumulation. *Amer. Soc. Enol. Vitic. Annual Conference*, Monterey, CA.

15. Type: Conference Papers and Presentations Status: Other Year Published: 2015 Citation: Dami, I. 2015. Winter damage of grapes: Lessons learned. "2015 Ohio Grape and Wine Conference".

16. Type: Websites Status: Published Year Published: 2013 Citation: Lakso, A. N. 2013. Untangling the concepts of vine size, capacity, crop level, vigor, and vine balance. *Grapes 101 in Appellation Cornell*, No. 13, March 2013. (<http://grapesandwine.cals.cornell.edu/cals/grapesandwine/appellation-cornell/issue-13/vine-size.cfm>)

17. Type: Conference Papers and Presentations Status: Published Year Published: 2015 Citation: Shaposhnikova, O., DeGaetano, A. and Lakso, A.N. 2015. Modeling Landscapes for Vineyard Site Suitability in a Marginal Climate. *Acta Hort. (ISHS)* 1068:141-146 http://www.actahort.org/books/1068/1068_17.htm

18. Type: Conference Papers and Presentations Status: Other Year Published: 2015 Citation: Lakso, A. 'Finding Balance: Vine Size, Capacity, Vigor and Vine Balance' Presentation to growers at the Mid-Atlantic Fruit and Vegetable Convention, January 2015

19. Type: Conference Papers and Presentations Status: Other Year Published: 2014 Citation: Lakso, A. 'Finding Balance: Vine Size, Capacity, Vigor and Vine Balance' Presentation to growers at the Southeast Grape and Wine Symposium, Dobson, NC, November 2014

20. Type: Conference Papers and Presentations Status: Other Year Published: 2014 Citation: Lakso, A. 'Regulating shoot vigor in Cabernet franc with balanced pruning and Lyre training' to the NY Business, Enology and Viticulture Meeting Waterloo, NY March 2014.

21. Type: Conference Papers and Presentations Status: Other Year Published: 2013 Citation: Lakso, A. 'Vine Size, Vigor and Balance' to Eastern Winery Expo, Lancaster, PA March, 2013

22. Type: Conference Papers and Presentations Status: Other Year Published: 2015 Citation: Basinger, N.T., K.M Jennings, D.W. Monks, S.E. Spayed, and W.E. Mitchem S. Chaudhari, 2015. Influence Vineyard Floor Competition on Growth, Yield and Berry Quality in Southeastern Vineyards. *Proc. Am. Soc. Enology and Viticulture*. 93(abstract)

23. Type: Conference Papers and Presentations Status: Other Year Published: 2015 Citation: Basinger, N.T., K.M Jennings, D.W. Monks, S.E. Spayed, and W.E. Mitchem S. Chaudhari, 2015.

Influence of Ground-cover Competition on Growth, Yield, and Berry Quality in Cabernet Franc Grape. Proc. South. Weed Sci. Soc. 136 (abstr)

24. Type: Conference Papers and Presentations Status: Other Year Published: 2015 Citation: Basinger, N.T., K.M Jennings, D.W. Monks, S.E. Spayed, and W.E. Mitchem S. Chaudhari, 2015. Influence of Ground-cover Competition on Growth, Yield, and Berry Quality in Cabernet Franc Grape. Proc. Weed Science Society of America. 234 (abstr)

25. Type: Conference Papers and Presentations Status: Other Year Published: 2014 Citation: Basinger, N. T., K.M. Jennings, D.W. Monks, S.E. Spayd, and W. E. Mitchem. 2014. Effect of herbicide strip width and late season weed competition on wine grape growth yield and quality. NC Winegrowers Association.

26. Type: Other Status: Published Year Published: 2015 Citation: Fiola, J.A. 2015. Massive Strides in Maryland Russian varieties add spark to state's wine business. Vineyard and Winery Management 41(5): 29-33.

27. Type: Conference Papers and Presentations Status: Other Year Published: 2015 Citation: Fiola, J.A. 2015. What We Learning About Regional Grape Variety Performance from the UME CMREC Vineyard. University of Maryland College Park Scholars Field Day. August. Largo, Maryland

28. Type: Conference Papers and Presentations Status: Other Year Published: 2015 Citation: Fiola, J.A. 2015. Experimental Varieties Performance in Southern Maryland and Evaluation of Wines of Promising Experimental Varieties from CMREC R&D vineyard. CMREC Twilight Meeting. August. Upper Marlboro, Maryland

29. Type: Conference Papers and Presentations Status: Other Year Published: 2015 Citation: Fiola, J.A. 2015. Recommended and Promising Varieties for the Mid-Atlantic. Mid-Atlantic Fruit and Vegetable Convention. February

Northern Grapes: Integrating viticulture, winemaking, and marketing of new cold-hardy cultivars supporting new and growing rural wineries. USDA SCRI 2011-51181-30850.

1. Type: Other Status: Other Year Published: 2016 Citation: Norton, E. and M Moroney, July 11, 2016. Pre-harvest Berry Sampling/Testing. Iowa Wine Growers Association Vineyard Educational Workshop, Fireside Winery, Marengo, IA.

2. Type: Other Status: Other Year Published: 2016 Citation: Oh, D., Kananizadeh, S. G'mez, M.I., "Cost of Establishment and Production of Cold Hardy Grapes in the Chautauqua-Lake Erie Region, 2015" Cornell Recent Advances in Enology and Viticulture, 2015 Agriculture & Food Systems In-Service Conference, Cornell Cooperative Extension, Ithaca, NY, November 3 2015. Attendance: 35

3. Type: Other Status: Other Year Published: 2016 Citation: Particka, C. and T. E. Martinson. November 3, 2015. Impact of winter injury and frost damage on Frontenac and Marquette Grapes in Clayton, NY. Cornell Recent Advances in Viticulture and Enology (CRAVE) conference. Cornell Cooperative Extension, Cornell University, Ithaca. Attendance: 35.

4. Type: Other Status: Other Year Published: 2016 Citation: Read, P. 2015. Pests and other

Problems, University of Nebraska Viticulture Program Workshop, October 17, 2015. Lincoln, NE. 45 attendees

5. Type: Other Status: Other Year Published: 2016 Citation: Sabbatini P. 2015. Growing super-hardy cultivars in Michigan: impact of vineyard management on fruit quality. VINCO Conference and Tradeshow, January 13-15, Grand Junction (CO).

6. Type: Other Status: Other Year Published: 2015 Citation: Industry conference: Martinson, T. December 17, 2015. Site and Soil Parameters for Northern Grape Production. New England Fruit and Vegetable Conference, Manchester, NH. Attendance: 85.

7. Type: Other Status: Other Year Published: 2016 Citation: Industry conference: Martinson, T. E. January 21, 2016 Anatomy and Physiology of Cold Hardiness - A Webinar VinCO Conference and Trade Show, Grand Junction, CO. Attendance: 100

8. Type: Other Status: Other Year Published: 2016 Citation: Industry conference: Martinson, T. E. January 21, 2016 Northern Grapes Project: A Webinar - Integrating Viticulture, Enology, and Marketing of New Cold Climate Cultivars VinCO Conference and Trade Show, Grand Junction, CO. Attendance: 100

9. Type: Other Status: Other Year Published: 2016 Citation: Industry conference: Martinson, T. J. Vanden Heuvel, and T. Prezler. March 3, 2016. Training systems and Labor: How to Achieve Economically Sustainable Vineyards with Quality Fruit. Nebraska Winery and Grape Growers Association Conference. Omaha, NE Attendance: 90.

10. Type: Other Status: Other Year Published: 2016 Citation: McCole, D. T. (2016). Are you Prepared to Understand Today's Tasting Room Visitor? Research and Results. Presented at Midwest Wine Conference. St. Charles, MO. February 2016.

11. Type: Other Status: Other Year Published: 2016 Citation: McCole, D. T. (2016). Connecting with Winery Visitors in the Digital Age. Keynote address presented at the Nebraska Wine Conference. Omaha, NE. March 2016.

12. Type: Other Status: Other Year Published: 2016 Citation: McCole, D. T. (2016). Increasing Tasting Room Sales. Presented at the Nebraska Wine Conference. Omaha, NE. March 2016.

13. Type: Other Status: Other Year Published: 2016 Citation: Miller, Ben, Simon, Katherine, and Valerie Gamle. Moderated by Matt Clark 4/2/2016. MDA Inspections: Town Hall update. University of Minnesota Grape Breeding and Enology Project Research Update. Minnesota Landscape Arboretum, Chaska, MN. 100 Attendees

14. Type: Other Status: Other Year Published: 2016 Citation: Sabbatini P. and P. Murad. 2016. Assessing winter damages and pruning strategies after the 2015 winter. MSU Extension meeting, Leori Vineyards, March 31st, Traverse City (MI).

15. Type: Other Status: Other Year Published: 2016 Citation: Industry Conference: Smith, Jeanette, M. White, J Thull, J. Luby and B. Nelson. 2/11/2016. Effective IPM program round table. Cold Climate Conference. Minneapolis, MN

16. Type: Other Status: Other Year Published: 2016 Citation: Soon Li Teh and M. Clark. 4/2/2016 'Powdery Mildew Resistance and Fruit Chemistry Research in UMN Grape Breeding Program' University of Minnesota Grape Breeding and Enology Project Research Update. Minnesota Landscape Arboretum, Chaska, MN. 100 Attendees

17. Type: Other Status: Other Year Published: 2016 Citation: Soon Li Teh and M. Clark 5/18/2016. 'Implementing Genomics and Metabolomics Tools to Inform Breeding for Fungal Resistance' Graduate Student Lightning Talks for UMN Extension educators. UMN Department of Horticultural Science, Saint Paul, MN. 50 attendees
18. Type: Journal Articles Status: Other Year Published: 2017 Citation: Eustice-Miller, C. L. & McCole, D. T. How different types of information impact wine tourists' willingness to pay: A non-hypothetical experiment. Under review: Journal of Sustainable Tourism.
19. Type: Journal Articles Status: Other Year Published: 2017 Citation: Frioni T., Green A., Emling J.E., Zhuang S., Palliotti A., Sivilotti P., Falchi R. and P. Sabbatini. 2016. Secondary Buds Produce Significant Yield without Loss of Fruit Quality in Response to Spring Freeze Damage in Marquette. Submitted to Scientia Horticulturae, October 2016 (under review).
20. Type: Journal Articles Status: Under Review Year Published: 2017 Citation: Hatterman-Valenti, H.M., C.P. Auwarter, and J.E. Stenger. 2016. Evaluation of cold-hardy grape cultivars for North Dakota and the North Dakota State University germplasm enhancement project. Acta Horticulture 1115 (1115): 13-22.
21. Type: Journal Articles Status: Other Year Published: 2016 Citation: Lee, J. & McCole, D. T. 2016. Understanding winery visitors: The relationship among wine involvement, perceived value, and winery loyalty. Under review: Journal of Travel Research.
22. Type: Journal Articles Status: Published Year Published: 2016 Citation: Martinson, T. E., Mansfield, A. K., Luby, J. J., Gartner, W. C., Dharmadhikari, M. & Domoto, P. 2016. The Northern Grapes Project: Integrating viticulture, enology, and marketing of new cold-hardy wine grape cultivars in the Midwest and Northeast United States. Acta Hort 1115:3-11.
23. Type: Journal Articles Status: Under Review Year Published: 2016 Citation: McRoberts, B. & McCole, D. T. Blurring the lines of the traveler planning and purchase process: Understanding how technology is impacting the consumer tourism purchase process. Under review: Journal of Travel and Tourism Marketing.
24. Type: Journal Articles Status: Published Year Published: 2014 Citation: Popp, L., & McCole, D. T. (2014). Understanding tourists' itineraries in emerging rural tourism regions: The application of paper-based itinerary mapping methodology to a wine tourism region in Michigan. Current Issues in Tourism, 1-17. DOI: 10.1080/13683500.2014.942259
25. Type: Journal Articles Status: Awaiting Publication Year Published: 2017 Citation: Rice, S., Koziel, J.A. Impact of pressing temperature and duration of skin contact on wine aromas from La Crescent and Edelweiss grapes using aroma dilution analysis and multidimensional gas 'chromatography ' mass spectrometry ' olfactometry. In preparation for submission 11NOV2016.
26. Type: Other Status: Other Year Published: 2016 Citation: Thull, John and Jennifer Thull, and M. Clark. 4/2/2016. Winter hardiness update. University of Minnesota Grape Breeding and Enology Project Research Update. Minnesota Landscape Arboretum, Chaska, MN. 100 Attendees Minnesota Landscape Arboretum, Chaska, MN. 100 Attendees
27. Type: Other Status: Other Year Published: 2016 Citation: Industry Meeting: Thull, John. 2/11/2016. Effective varmint control measures and related costs. Cold Climate Conference. Minneapolis, MN Attendance: 200.
28. Type: Other Status: Other Year Published: 2016 Citation: Wallis, A. Vineyard Management

and Natural Disaster Training. August 3, 2016. Crop Loss Adjuster Training 8/24. Attendees: 18.

29. Type: Other Status: Other Year Published: 2016 Citation: Wimmer, M. (2016). Vine Establishment/Training Systems. Spring Vineyard School. April 1, 2016. Cambridge, WI.(attendance 35

30. Type: Websites Status: Other Year Published: 2015 Citation: Particka, C. and T. Martinson. Northern Grapes Project Website. <http://northerngrapesproject.org/>

31. Type: Websites Status: Other Year Published: 2012 Citation: Stafne, E. ed. eXtension Grape Community of Practice resource articles. <http://articles.extension.org/pages/31880/grapes-community-page>

32. Type: Other Status: Published Year Published: 2016 Citation: Extension bulletin: Burrows, R., Bender, A., Fennell, A., Thaden, B. 2016. Overhead Netting for Commercial Vineyards and Orchards. 7 pages SDSU Extension 06-2003-2016.

33. Type: Other Status: Published Year Published: 2015 Citation: Burrows, R., Fennell, A. 2015. Grape varieties for South Dakota. 4pages SDSU Extension 06-2000-2016. CAES Bulletin 1042

34. Type: Other Status: Published Year Published: 2016 Citation: Cannella, M.P. 2015. 2015 Vermont Vineyard Feasibility Study, FBRR 014: University of Vermont Extension. T. Bradshaw served as consultant on the project, funding provided by VT Working Lands Enterprise Fund and VT Agriculture Experiment Station.

35. Type: Other Status: Published Year Published: 2016 Citation: Extension Bulletin: D. Cochran 2016. Revision of Smiley, L., P. Domoto, and Gail Nonnecke. 2008. A Review of Cold Climate Grape Cultivars.. Iowa State Extension HORT 3040. <http://www.extension.iastate.edu/viticulture/cold-climate-cultivars>

36. Type: Other Status: Published Year Published: 2016 Citation: Ferrandino, F. J. 2016. Grape Anthracnose (PDF Format). Connecticut Agricultural Experiment Station Factsheet.

37. Type: Other Status: Published Year Published: 2016 Citation: Ferrandino, F. J. 2016. Grape Downy Mildew (PDF Format) Connecticut Agricultural Experiment Station Factsheet.

38. Type: Other Status: Published Year Published: 2016 Citation: Ferrandino, F. J. 2016. Grape Powdery Mildew (PDF Format) Connecticut Agricultural Experiment Station Factsheet.

39. Type: Other Status: Published Year Published: 2016 Citation: Ferrandino, FJ and Bravo J. 2016. 'Winegrape cultivar trials in Connecticut: 2012-2015.' <http://www.ct.gov/caes/lib/caes/documents/publications/bulletins/b1042.pdf>

40. Type: Other Status: Published Year Published: 2016 Citation: Tuck, B. and W. C. Gartner. 2016. Grapes of the North: Status report 2016. University of Minnesota Extension Center for Community Vitality.

41. Type: Other Status: Published Year Published: 2016 Citation: Tuck, B. and W. C. Gartner. 2016. Economic Impact of Grapes and Wineries of the North . University of Minnesota Extension Center for Community Vitality.

42. Type: Other Status: Published Year Published: 2016 Citation: Tuck, B. and W. C. Gartner. 2016. Wineries of the North: Status report 2016. University of Minnesota Extension Center for Community Vitality.