



Viticulture, enology and marketing for cold-hardy grapes



News You Can Use

Grapevine Nutrition

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Iron chlorosis due to high soil pH.

Photo: Harlene Hatterman-Valenti, North Dakota State University

Growers of cold-hardy grape cultivars are currently relying on mineral nutrition and soil management practices developed for *Vitis vinifera* or *V. labrusca*. Therefore, Carl Rosen and James Crants at the University of Minnesota are leading the effort to develop this information specifically for cold-hardy grape cultivars. Soil and tissue samples, as well as yield data (including juice chemistry analysis) are being collected in 15 sites in IA, MN, NY, ND, and SD, focusing on Marquette, Frontenac, and La Crescent.

This issue of *News You Can Use* contains links to a webinar and a newsletter article that cover the basics of soil fertility and appropriate methods for collecting soil and tissue samples, as well as interpretation of the results:

March 12, 2013 “Vine Nutrition” Webinar by Carl Rosen and Paul Domoto

<http://www.youtube.com/watch?v=easAzwROKrc&list=PLGIR49aM1wm4SWL7XS-oO9z8vaFttIL>

Link to slides

<http://northerngrapesproject.org/wp-content/uploads/2012/03/Northern-Grapes-Symposium-March-12-Grapevine-Nutrition.pdf>

Feb. 28, 2014 (Vol 3 Issue 1) *Northern Grapes News*. “Assessing the Nutrient Status of Cold-Hardy Wine Grapes” by Carl Rosen and James Crants, pg. 6-8.

<http://northerngrapesproject.org/wp-content/uploads/2014/02/2014FebruaryNGPnewsletter.pdf>

Additionally, the Year 3 *Northern Grapes Project* Progress Report contains a research report that includes the results thus far of the research effort led by Carl Rosen and James Crants:

Grapevine Nutrition and Juice Quality by Carl Rosen and James Crants.

<http://northerngrapesproject.org/wp-content/uploads/2015/02/Mineral-nutrition-and-soil-management.pdf>

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