2008 grape variety trial at Rogers Mesa

Horst Caspari
In 2008, we started a new variety trial at the Western Colorado Research Center – Roger Mesa.

This trial is part of a nation-wide network of variety trials referred to as NE-1020 project: “Multi-State Evaluation of Winegrape Cultivars and Clones”.

Evaluation of several *V. vinifera* and hybrid varieties as well as new advanced breeding selections (MN, NY).
NE-1020 Variety trial at Rogers Mesa

- **V. vinifera** – Auxerrois, Bianchetta trevigiana, Blauer Portugieser, Grüner Veltliner.

- Cold-hardy, resistant varieties – Chambourcin, Marquette, MN 1200, Aromella (NY 76.0844.24), NY 81.0315.17, Vidal.
  
  - NY 81.0315.17 is grafted to 101-14. All other varieties are own-rooted.
Materials and Methods

- Planted in 2008, with additions in 2009 (Chambourcin, MN1200, Marquette, Vidal)
- Design: RCB (6 blocks, 4-vine plots)
- Vine x row spacing is 5’ x 8’10”
- Cordon and spur
- VSP for V. vinifera
- High cordon for cold-hardy varieties
- Drip irrigation with bare soil
Materials and Methods

First crop in 2010

In 2015, the entire crop was destroyed by birds and raccoons.
Materials and Methods

Minimum temperatures during dormancy (2010 to 2016 season)

- -6.7 (10 Dec 2009)
- -9.8 F (3 Feb 2011)
- -1.9 F (24 Dec 2011)
- -11.8 F (15 Jan 2013)
- -7.3 F (5 Dec 2013)
- 1.9 F (1 Jan 2015)
- -5.7 F (27 Dec 2015)
Cold? - Where? When?
Perfect bud break on Marquette in 2011
Six year average yield

3rd to 8th year
* indicates 3rd to 7th year only

Average yield (ton/acre)

- Blauer Portugieser
- Auxerrois
- Bianchetta trevigiana
- Grüner Veltliner
- MN 1200
- Marquette
- NY 81.0315.17
- Chambourcin
- Vidal
- Atoma
Summary

Highest average yield after eight years (six crops) by Aromella, Vidal, Chambourcin and NY 81.0315.17 (>3.0 ton/acre), followed by Marquette (2.2 ton/acre).

Average yields of MN 1200 and all *Vitis vinifera* cultivars are <1.5 ton/acre.
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Rogers Mesa 2008 grape variety trial

For more detailed information on this and other research projects please review our Annual Research Reports available on our web page:

[CSU Viticulture page]
Questions?

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